Notes du mont Royal

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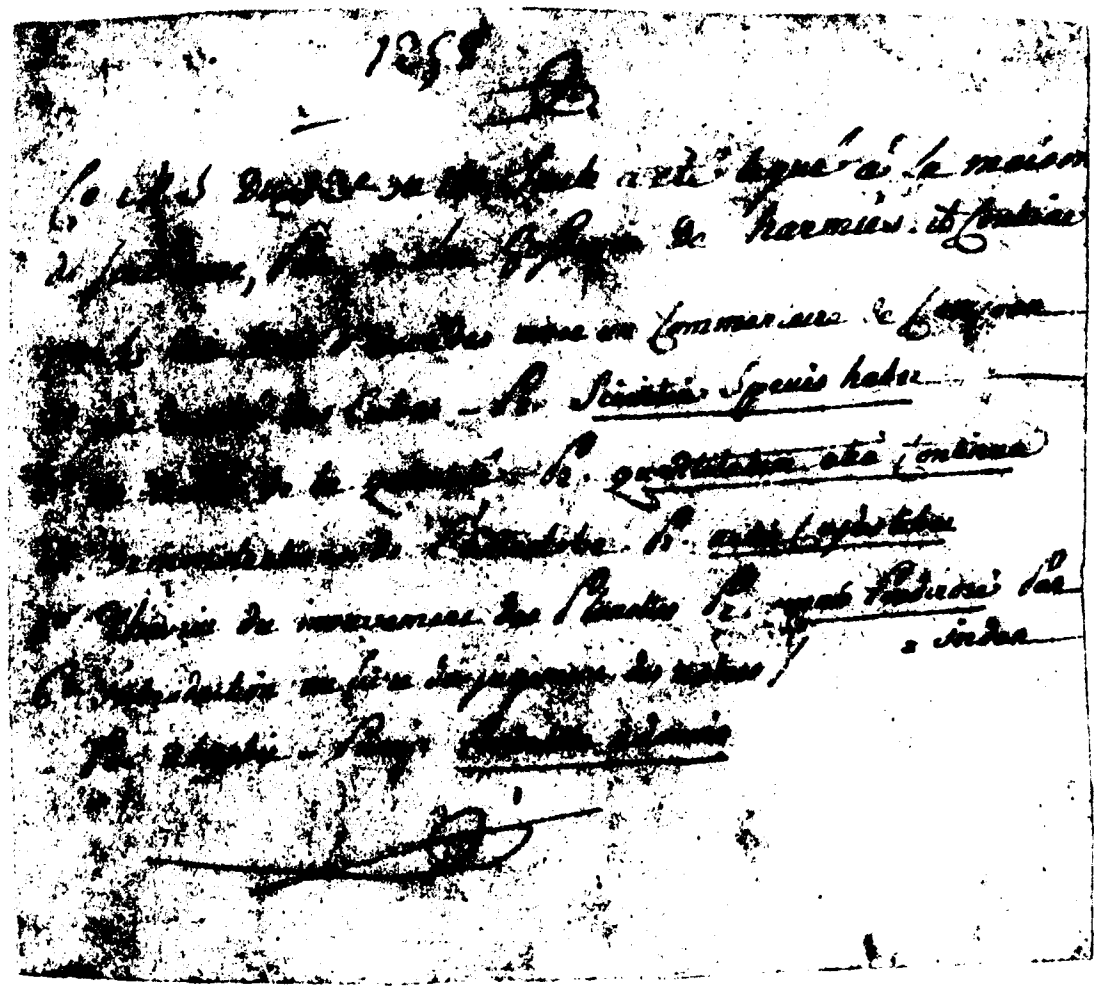

Volume de 200 Feuillets.
plus le Feuillet 1 préliminaire
Le Feuillet 1 est Mentilé.
17 Juin 1869.

LAT.

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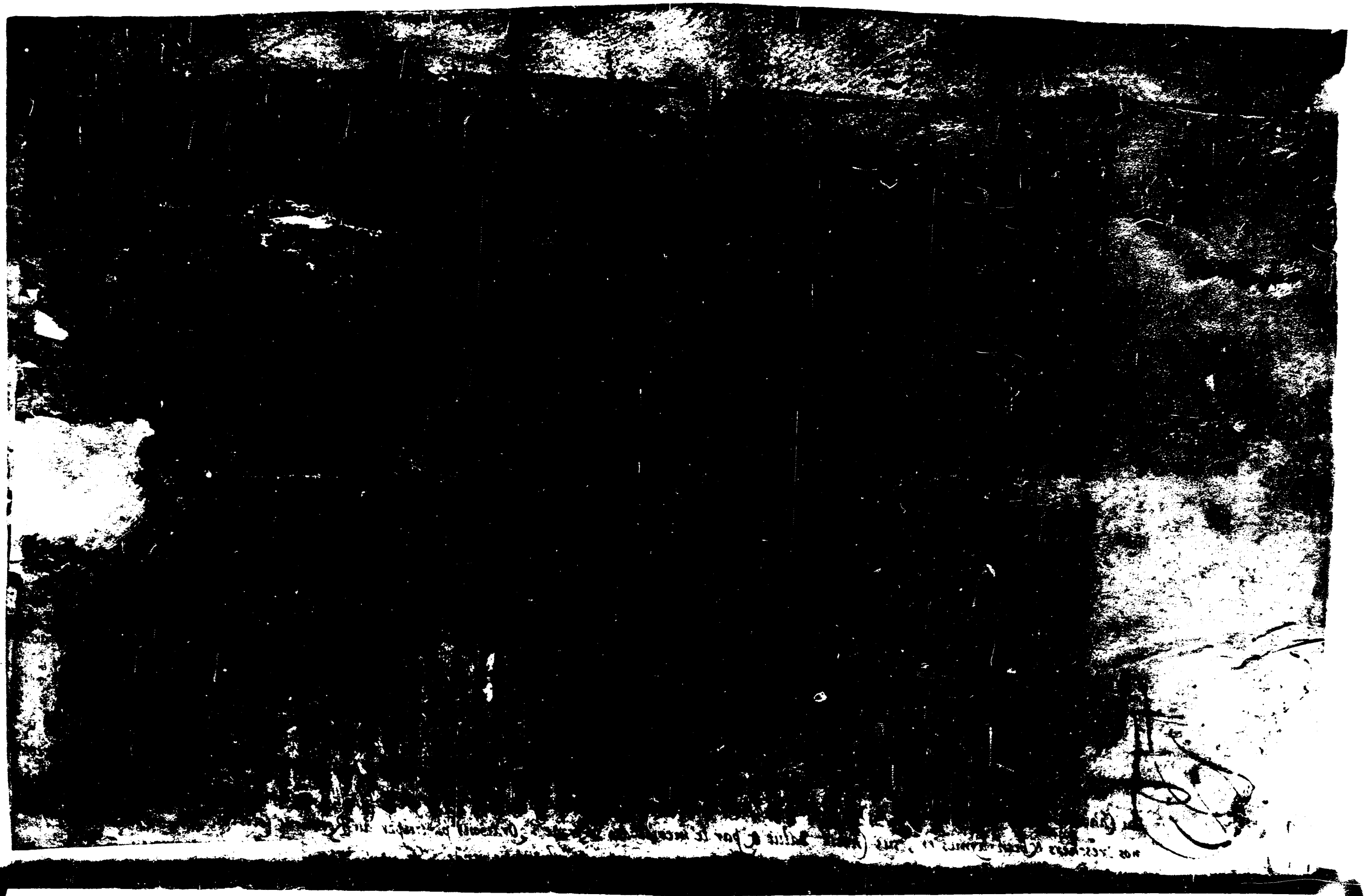

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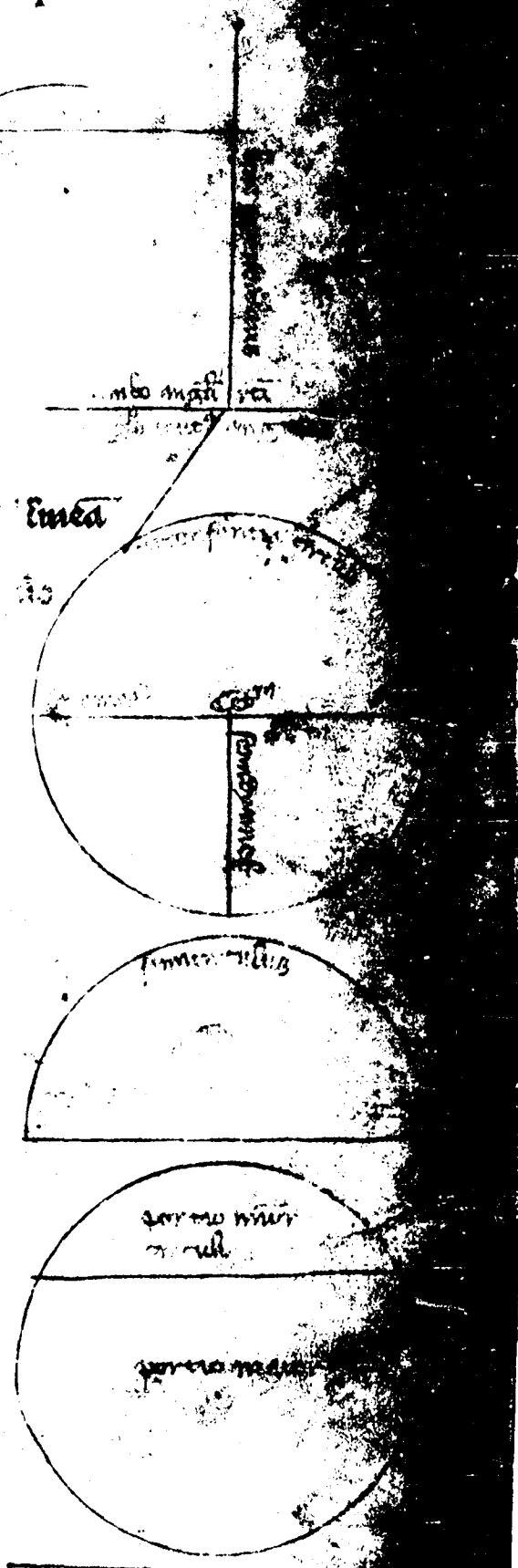
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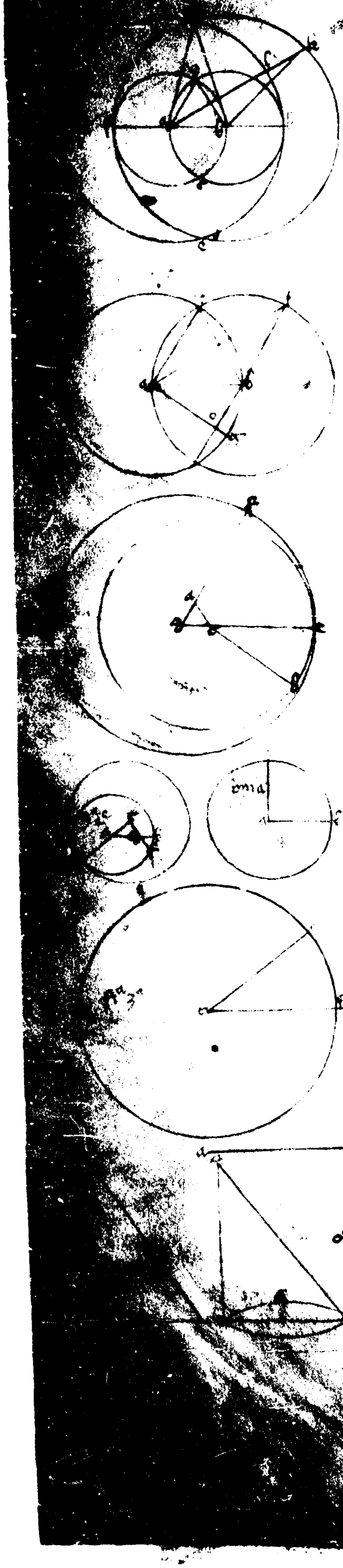


a Dato puncto cuilibet lice re equalem ducere

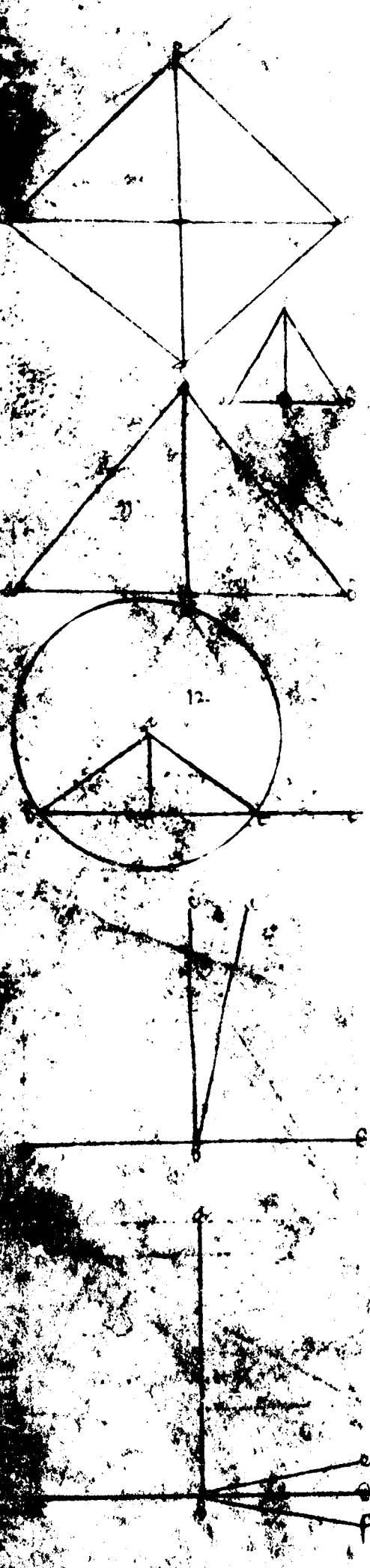
Duobz datis lineis inequalibz de longiori

Duobz datis lineis inequalibz de longiori

Duobz datis lineis inequalibz de longiori

equalia

puncta



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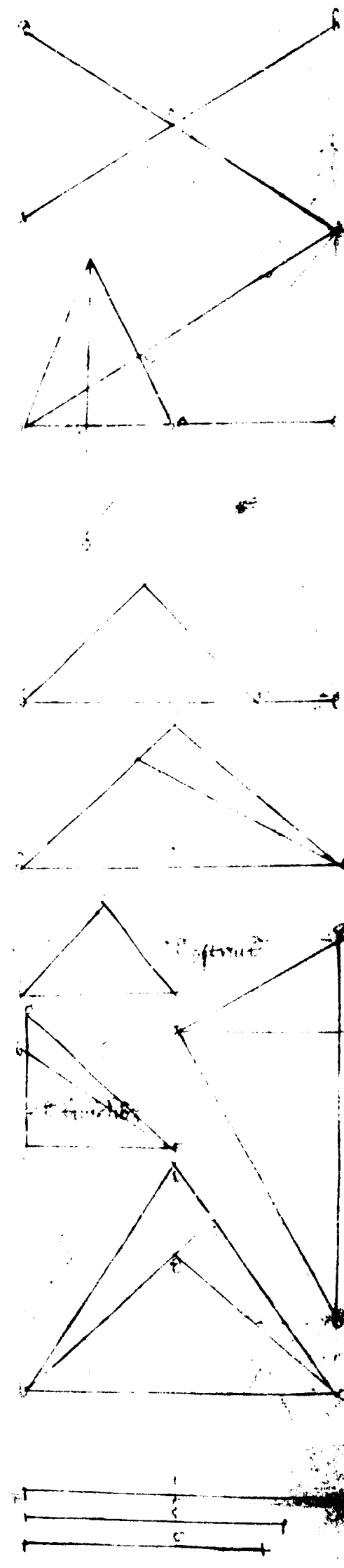
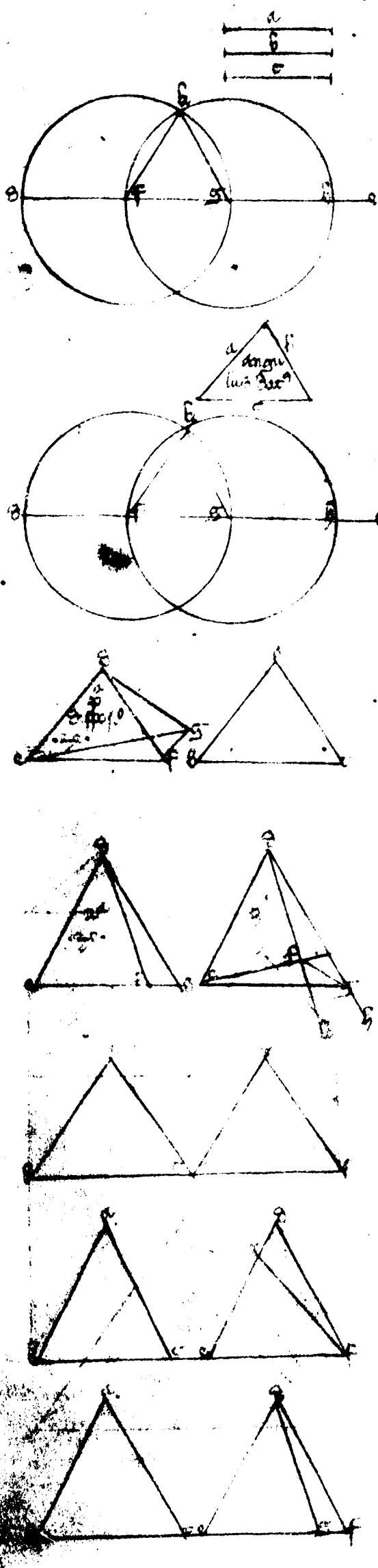




ponte · a·b · c·r·sint que duę sint reliq̃ longiores reliq̃ alię · n · ex tribꝫ cōlibꝫ nō possit trigonulus
constitui p 20 g5 ex tribꝫ equalibꝫ ptās volo astruere triangulum sint duę que ste · d·e · tm nō ponat
sint decimam ayte · e · de quasumo p xiiii · d·f · equalem · a·r·f · 5 · equalem · b·r·5 h · cōlem
c · facto qꝫ primo · f · centro despō circulꝫ f · d · emisphm · d·k · Iterꝫ fco · 5 · centro describo 3ām te
· 5·h · circulum · h·k · qui cirlꝫ meabime se in duobꝫ primis quibꝫ tm sit · k · aliogin sequit · b
nam sua diametros sit et cōlem alius duabꝫ sint inscriptꝫ a maiori eop qđꝫ ānu possim · Duco 5°
hab · k·f · r·k · 5 · et qꝫ trigonulus · f · 5 · k hystituetur ex tribꝫ suis cōlibꝫ suis · a·b·c · datis sp · n · f
· d · r · f · k · cōles qꝫ expedit accentro ad circūferām qr · f · k · est cōlis · a · sumit quoz · 5 · h · r · 5
· k · sp cōles qꝫ expedit accentro ad circūferām qr · 5 · k · est equalis · ex qꝫ · 5 · f · supra cōles fuit · b ·

Data recta rectilineo cuius cuiꝫ angulo ex tribꝫ equis angulis designare

Sit data lia · f · e · que est mensurans sint lineę · b · c · a · ex mentes angulos datum cui sub
tendam basi · c · sup punctum · f · lie · e · f · ubem facit cōles maiꝰ ām lo dato dlo · e · f · ad duos · f · d · q cōles
lie · a · r ex · e · f · simo f · 5 · cōle · b · rep · 5 · c · simo 5 · h · cōle · c · r sup · f · r · 5 · rectis duob circulos
· d · k · r · k · h · q circulos duas sint · f · d · r · 5 · h · mō rectangulos se mpunctis · k · sicut docuit posses
ductꝫ lios · k · sp · r · k · 5 · erit duo lata · k · f · r · 5 · tm · k · f · 5 · cōles duobꝫ lateribꝫ · a · r · b · tm
gulꝰ · a·b·c · r basis · 5 · a · cōlis basi · c · 5° p · b · angulus · k · f · 5 · cōles ē angulo contento ab
· a · r · b · qđ ꝫ ꝓpm

Trium duoꝝ triangulorum quoꝝ duo lata duorum duobꝫ lateribꝫ altius fuerit reliquum reliquis equalia si fuerit angulorum sub illis equis lateribꝫ contentorum alterꝰ alterꝰ maior basis quoꝝ eiusdē basi altius maior erit

Sint duo trigona · a·b·c·r·d·e·f · sint qꝫ duo lata · a·b·r·a·c · cōlia duobꝫ lateribꝫ de r·d·f · utrumqꝫ suo conuenienter & angulꝰ a maior an
· d · dico qꝫ basis · b·c · maior erit basi · e·f · Sciam · n · mō dē ꝫ ꝓ ab angulꝰ · d·e·5 · cōlis angulo a ·
et qꝫ angulus · e·d·f · pars cuiꝰ r ponam · d·5 · cōlem · a·c·r ꝓ ham · e·5 · que a tm sibi sup
· ef · ut scz ludam · d·f · a sup · e·f · ut ste scz una lia a mensa transeat 5 p sup —— r qꝫ · a·b ·
r · a·c · lata tm · a·b·c · sp cōlia · e·d·r·d·5 · lateribꝫ tm · e·d·5 · r angulus · a · angulo · d ·
tōli ē ex qm basis · b·c · equalis basi · e·5 · et b° qꝫ · d·5 · r·d·f · sp cōles ita bē ꝫ est · cōlis · a·c ·
erit ex hm angulus · d·f·5 · cōlis angulo d·5·f · 5 angulus · e·f·5 · mō sororius ꝫ maior f·5 ·
5° p ab · latus · e·5 · manus est latꝰ · e·f · ex r·b·c · maior · e·f · ex ꝫ ꝓpm · Si uō e·5 · tm sit ex sup · e ·
· f · r ste —— lia una cū · e·f · et pars · e·5 · ꝓbleꝫ conceptꝫ 5° patz qđm · Si uō tm sit · e·5 ·
sub · f · ꝓ hanc uē due lie · d·f · r · d·5 · que ste cōles ut ꝓbatum est ex ab lr r ad · h · sicut p hm
ꝓ cem lie sub basi · f·5 · angulꝰ · k·f · 5 · r · f·5 · h · equales ex · angulus · e·f·5 · maior ē angulo
· e·5·f · 5° p ab · latus · e·5 · manus est latꝰ · e·f · ex · b·c · maior est · e·f · qđ ꝫ ꝓpm · Illud ꝑbm
membrum p ꝑbm p · 24 · p nisi enim erunt m dispone tria due lie · d·5 · r 5 · e · maiores
duabꝫ · d·f · r · f · e · r qua · d·5 · est cōlis · d·f · 5° h · q amice sp cōles · a·c · et · 5 · e · maior · e·f · q
r · b·c · maior cadꝫ tri qđ ꝫ ꝓpm · nchus ꝫ ex demonstrare pon · m ut mō dispone ar p q m

Trium duoꝝ triangulorum quoꝝ duo lata duorum duobꝫ lateribꝫ altius fuerit cōlia basis & unus basi altius maior fuerit erit quoꝝ angulus t lu maioris altitudē conus lateribꝫ contentus alio altius se respicientē maior

Sint duo trigona · a·b·c·r·d·e·f · sint qꝫ duo lata · a·b·r·a·c · p cōlia duobꝫ lateribꝫ · d·e·r·d·f · r unusqꝫ
suo relatiuo ste qꝫ basis · b·c · maior · e·f · basi · dico q angulus · a · maior et angulꝰ · d · h ꝫ assꝫ pone
cōlis quia nō est sic · n · esse p eam basis · b·c · cōlis basi · e·f · qđ ꝫ ā p oppositum sit n; mō qꝫ sic esse · t ·
maior · r ita p ꝓcem basis · e·f · maior basi · b·c · qđ ꝫ ā viu ꝓpm ste ꝫ qđ erat ꝓpm

Trium duoꝝ triangulorum quoꝝ duo anguli unius duobꝫ angulis alius alijs se respicientes equales fuerit latus r unus lateri alteri cōle fuerit qz latus illud inter duos angulos equales a duabꝰ eoꝝ oppositum erunt quoꝝ duo unius reliqua duobꝫ reliquis alius triangulī lateribꝫ totaliꝫ se respicienti equalia angulus reliquus unius angulo reliquo alius equalis

Sint duo trigona · a·b·c·d·e·f · ste ꝫ angulus · b · cōlis angulo · e · r angulus · c · cōlis angulo · f · ste ꝫ latus · b·c · cōlis lateri · e·f ·
aut alteri quoꝝ lateribꝫ · a·b · r · a·c · cōle alteri duoꝝ laterꝫ · d·e · r · d·f · i qꝫ · a·b · ste cōle · d·e · et · a·c ·
equale · d·f · qđ reliqua duo lata unius erunt cōlia duobꝫ reliquis alius r reliquus angulus
reliquo angulo · b · angulus · a · angulo · d · p 5° ponā · a·b·c · sup quo erect · angulꝰ · b·c · ste
cōle lateri · e·f · et adiacent anguli · e·f · quo posita ste equales erunt qđ latus · a·b · est cōle lateri
· d·e · r latus · a·c · lateri · d·f · r angulus · a · angulo · d · sit n · latus · a·b · nō est cōle lateri d·e · et
alius manus ste 5° q · · qđ repetendo cōle · a·b · ste ꝫ · 5·c · cōle · a·b · ꝓpter eadē lia 5·f · erit

q̄ ꝫ mpole cūt ḡ· de· cl̄les· ab· ḡ p· 8· df· cl̄les· cc· ⁊ angulus· d· equalis angulo· a·

ꝫ gam angulus· gf· e· cl̄les angulo· a· c· b qr ⁊ angulo· d· f· e· ptr totꝫ qd ꝫ pm membrum
mēmo ꝓpter· Hmōi rursus ut ꝓpus duo anguli· d· c· equales duobz angulis· e f· ſtz lat⁹
a· b qd opponit⁹ angulo· c· cl̄les lat⁹ c· d· dico q latus· b· c· eſt cl̄les lat⁹ e· f· ⁊ latus· a· c·
lat⁹ df ponam ꝙz· e· gf· cl̄les· b· c· ⁊ qd ducam liam· d· g· e⁹ qz ꝙ gam angulus· d· gf· e· cl̄les angulo
· a· c· b· qr ⁊ angulo· d· f· g· eꝑ inſtans uidz mēn⁹ qd ꝫ mipole ꝓ 16 e⁹ gf· e· f· cl̄les· b· c· gf ꝓx⁹
· d· f· equale· a· c· ⁊ angulus cl̄les angulo· a· qd ꝫm membꝝ duōm ꝓpter qr ꝓz totum

ꝛ linea rta ſup duas lias rtas cecidit. duos angulos coalternos ſibi mbrōr
equales ſcēt ille due linee erunt equedistantes. Facēdo q angulꝰ coalē
d· cimꝫ duo anguli mtrm⁹ contenta ab aliq lia cadente ſup duas lias ⁊ m hūs duab⁹ lijs ſup quas
cadit hꝫ duo ꝓtū lice cadunt quor⁹ bnus ꝫ a dextris ⁊ alius a ſiſtris ⁊ bnus ſurſum ⁊ alius de
orſum qd ḡ ſtē ut li⁹ a· b· cadat ſup duas lias· c· d· ⁊ c· f· er· ſtz lias· c· d· ⁊ c· f· m duob⁹ ꝓ
tis· g· ⁊ h· ſtz ⁊ angulus· d· g· h· equalis angulo· e h· g· d⁹ q· linee· c· d· ⁊ e· f· ſūt eq̄diſtantes
Hi· n· q· ſi· nō ſūt· a· ad ꝓtem· c· e· ſup puncta· b· ⁊ a· ad ꝓtē· d· f· ſup· l· quales ꝙz ſint· dūc⁹ mipole q
· 16· uidz· angulꝰ eꝑ inſtans e⁹ cl̄lem angulo mtrm⁹ n· t· huius duoꝝ angulorū coalēm qui ꝓ
ſt· equales e⁹ eꝑ inſtans ⁊ reliquus mēn⁹ qz ḡ mpole ⁊ eas contīe· m alterū ꝓtem ꝓtractas rō
ſt· equedistantes ꝓ diffinic qd ꝫ ꝓpm

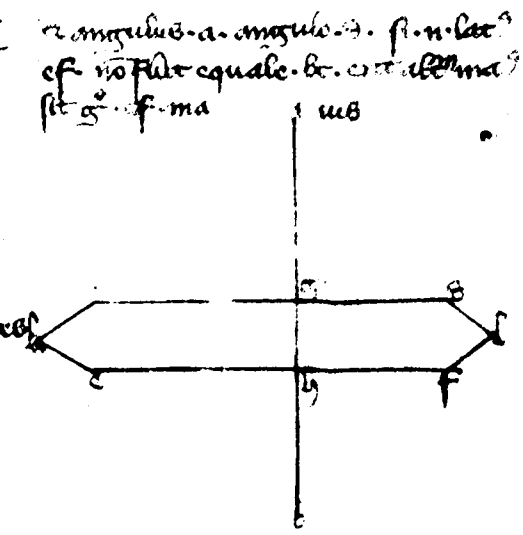
mca rta ſi duabz lineis rtis ſuperuenit ſintz anḡli extrinſecus angulo mi
trm⁹ ſibi oppoſito equalis· ⁊ alt⁹ anguli mtrmſci ꝙ una parte duobz an
gulis rtis equales ille due linee erunt equedistantes. Sit uelut a· b· ſtz lias· c· d·
⁊ e· f· m duob· ꝑnctis· g· ⁊ h· ſtz· angulus· g· eꝑ inſtans· e· cl̄les· h· angulo mēn⁹ ꝙ ei⁹ ꝓxīe ſupꝰ
a· duo anguli· g· c· h· mōr⁹ ꝙ ei⁹ ꝓxīe ſupꝰ duobz rtis· angulis equalibz d⁹ q· due lie· c· d· ⁊ e· f· ſt
equedistantes ſit· g· p⁹· mediꝰ· d· g· a· equalis angulo· f· h· g· c⁹ꝫ priꝰ· angulus· c· g· h· cl̄les
ei⁹ dē angulo· d· g· a· qr ꝙ ꝓm conceptū· b· quez ꝫm ei⁹ ⁊ ei⁹ angulo· f h g· ḡ ꝙ ꝫm ſim
· c· d· ⁊ e· f· ſt equedistantes. Hmōi ꝙ rursus duo anguli· d· g· h· ⁊ f h g· cl̄les duobz rtis ꝙ
· 12· ⁊ duo anguli· d· g· a· ⁊ d g h· ſt ꝫm ei⁹ cl̄les duobz rtis et· angulus· c· g· h· cl̄les angulo· f h·
· g· qr ꝙ ꝓm ſim lie· c· d· ⁊ e· f· erunt equedistantes qd ꝫ ꝓpm

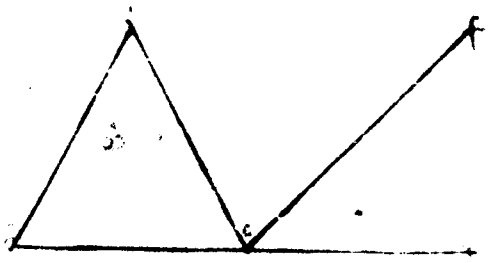
ꝛ duabz lineis equedistantibz lia ſuperuenit duo anguli coalterni cl̄les erūt
anguli quoz extrinſecus angulo mtrmſco ē oppoſito cl̄li ꝓxīo duo an
guli mtrmſci ꝙ altera ꝓte conſtituūt duobz rtis angulis equales. Hmōi
due lice· a· b· ⁊ c· d· equediſtantes ſup quas cadit lia e· f· ſtēs cās m ꝑnctis· g· ⁊ h· dico
q· anguli· g· ⁊ h· coalēm ſt cl̄les ⁊ angulus· g· eꝑ inſtans e⁹ equalis angulo· h· mēn⁹ ē oppo⁹ eꝑ eas
ꝓxīe ſupꝰ ⁊ q· anguli· g· ⁊ h· mrmⁱ ꝙ eas ꝓxīe ſupꝰ ſt cl̄les duobz rtis· hꝫ ⁊ quia duarū ꝓxīe
p⁹ ꝓ ſtē· ſi· n· angulus· b· g· h· nō e⁹ ē maior angulo· c· h· g· alē cōſ e⁹ maior· ſtē g· m· uel
angulus· c· h· g· ⁊ qz anguli duo· c· h· g· ⁊ b· h· g· ſt cl̄les duobz rtis ꝙz· erūt duo anguli
· b· g· h· ⁊ b· h· g· m⁹ē duobz rtis g· p· eam ꝓbr⁹ hanc duc· lie· a· b· ⁊ c· d· ſi ꝓhant ḡcēm
ꝓcm· b· ⁊ b· ad alīq ꝑnctū ut· k· nō ꝫ erit ⁊ ſo ſt eq̄diſtantes ꝓ diffi nē qd ꝫ q ꝓpoſim ⁊ qz
hꝫ ⁊ m pole ē ut· d· uo anguli coalēm· b· g· h· ⁊ c· h· g· equales qd ꝫ ꝓpm. Et ſi· k· ꝓ ſit· n·
ꝓ· uq· angulus· b· g· h· cl̄les angulo· a· g· e· g⁹ angulus· a· g· c· eſt cl̄les angulo· c h g· ꝫ
· b· mrmⁱ ꝙ qd ꝫ ꝫm ꝓpm. Expoſ⁹ rursus ꝓz ꝫm ſi· n· ꝓ· uz· duo anguli· a· g· e· ⁊ a· g· h· cl
les duobz rtis ſi quis ſit mēn⁹ ꝙ ei⁹ ꝓxīe ſupꝰ qd ꝫ ꝫm ꝓpoſitum. Si· g· duo· a· g· h· g· hꝫ· erūt duobz rtis

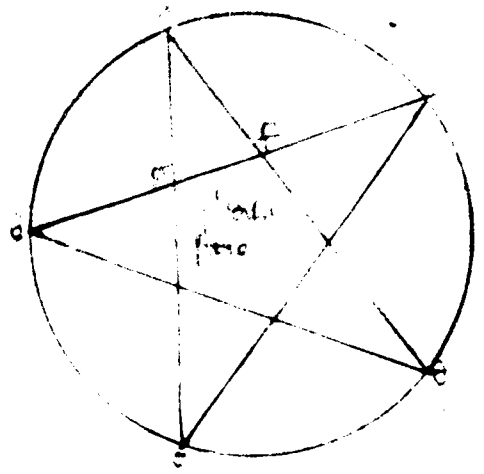
ſi fuerint lice plures equedistantes una cedens ſibi mbrōr eq̄diſtantes erunt
ſint due lice· a· b· ⁊ c· d· quarū ſit eq̄diſtans lice· e· f· d⁹ q· a· b· ⁊ c· d· ſt eq̄diſtes
b· n· ſi· ſint ſup ſtē· ſue due lice· a· b· ⁊ c· d· ſint m bna ſuperficie cū· e· f· ſue nō ſint eq̄diſtantes
ſi· n· ſi q· ſint m ſuperſtē bna ſ· cū ſit m duāꝫ ſuperſtē q· d· q· ꝓtē ēmbrōr equedistantes ſi· ſt
ſi· n· ſi· q· ſint m ſuperſtē· ꝓtēm a· b· m· ⁊ h· ſe cōtīgūt lias· a· b· ⁊ c· f· ⁊ c· d· ꝓducte· ⁊ ſint
⁊ ſi· a· b· equedistāt· e· f· et· angulus· b· k· l· equalis angulo· e· l· k· ꝙ ꝓma ꝓtē ſint
ſint coalēm ac ꝙz· c· d· equedistāt· e· f· et· angulus· k· l· e· eꝑ inſtans equalis
· c· mēn⁹ ꝙ ei⁹ ꝓxīe ꝓtēm ꝙ angulus· b· k· l· eſt cl̄les angulo· c· m· l· qui ḡ ſibi coalēm
erunt ꝙ· a· b· lice· a· b· ⁊ c· d· equedistantes qd ꝫ ꝓpm

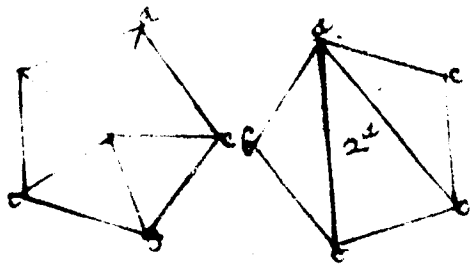
ꝑncto extra ſignato lineam linee ꝓpoſite equedistantē duc. Junct⁹
cl̄les datus mediꝰ ſecet· ſi ꝫ ſic ꝫ ſecet ſit· g· ⁊ ꝑ ei⁹ ꝓtēm ducatur ꝓpoſitum. nō ſit· ſed ſi· g· d· ꝑncto
datus cl̄lem· b· c· a quo ꝫ ꝓpoſite lineam equedistantē d liam· b· c· ꝓtēm lineam· a· d· ſecēs ꝙz
ſi· ꝑncta· m· a· qui eſt cōmunis lice· a· b· ſtrono angulū· e· a· d· ſ duo nā· ⁊ equalem
angulo· b· d· a· ꝙ coalterno ei⁹· a· c· equedistās· b· c· ꝙ· 12· qd ꝫ ꝓpm

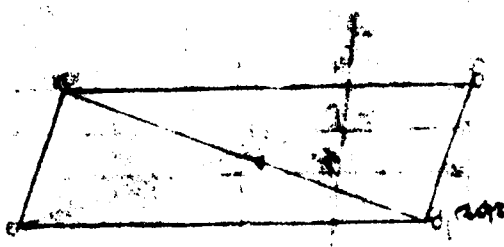
unus trianguli angulus extrinſecus duobz mtrmſcis ē oppoſitis ē cl̄les

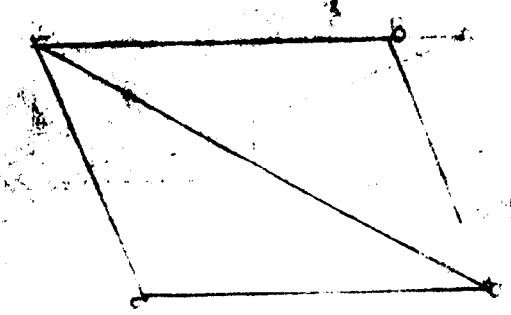












Omes .l'. z· angulos eius duobz angulis rās equales esse nrē est Sit
ē angulus ·a·b·c· cui⁹ latus ·b·c· ꝓtĥām· usq; ad ·d· dico ꝙ angulus ·c· ꝓxīus est cālis duob
·a· z ·b· nrīs· ms rās & oppositus similit ductis z ꝙ ers in⁹ tām ·a·b·c· simil ucta st cālis duob
rās a primo ·c· ꝓtīnam ·c·f· equedistāte ·a·b· st duob⁹ ·a·b· rās ē ⁊ angulus ·b·f·c· ·i· cālis ·a·
·i· uū st cū ꝺcm ꝙ ꝓma ꝓtē 29· z angulus ·f·c·g· ē tm· ms cālis angulo ·b· nrīs ꝙ
tām ꝓtē cuiꝰ ꝙ ·a·c·b· ꝓīnq; z cālis duob⁹ angulis ·a·z·b· nrīs rās oppas qđ z ꝙm mēbrū
ē ⁊ duo anguli ·a·c·b· z ·a·c·f· st cālis duob⁹ rās ꝙ ⁊ erūt ·z· anguli ·a·b·z· c· nrīs
cālis duob⁹ rās qđ z ꝙm Ex ꝺcis ꝓ nō ꝙ oīs fē polygonū oīs angulī simil sūpti tot anguli
rās st cālis quotus z nūlus quo ꝓma dēficit ꝺ duplicatus· ū ꝝ polygonaꝝ figurāꝝ ē tm
ꝓm· ꝙ que ſ cū quāplīr ꝙ hꝝ st clausolineaꝝ tūc ducī rō manifēste ꝛpīcit qđ z ꝙ
ꝙ ꝺcōm ꝓtīne· z quadrilatā z pentag⁹ ⁊ sic simil quelz ē ꝺ mō mō ordīne quotus ē nūlus
tādem ā angulorꝫ cui⁹ ibē dēpto ꝺmano· ꝺco ꝝ ꝙ ē tāgulus z ꝓma oīs anguli cui⁹
st cālis ꝙ duob⁹ rās· quadrilat· que z 2ª erūt cālis ꝙ rās· In pentag⁹ ꝝ que z 3ª· 6· rās
·ſ· ā z m tm ꝙm a· quelz talis fā st m tot tāgulos diuīs quota ꝓa fuit ꝓma ductis
rās tot⁹ angulorꝫ cui⁹ ad oīs angulos oppos ꝓtē oīs anguli ibē tām duob⁹ rās
equales erūt oīs tacite— figure oīs anguli bis tot rās angulis cālis quota ꝓa
fuit ꝓ qđ z ꝙm ꝺ ꝝ st pentag⁹· a·b·c·d·e· acui⁹ angulo ·i· ducta duab⁹ rās
ꝛ angulis ·b·c·z·d· oppos ē z totus pentag⁹ ꝛsolutus in ·z· tāgulos ·b·a·b·c· ·a·c·
d·z·i·d·e· quor ē cui⁹ ·z· anguli st cālis duob⁹ rās erūt oīs pentagam tm cālis
·6· rās qđ z duplū cui⁹ ·a· quo ꝓma dēficit ꝙ duplū— nūl⁹ angulorꝫ ad latꝰ cui⁹
dēpte mō ibē· ꝓ ꝺcis· z ꝙ ꝓ ꝺcis ꝓcēdo ꝙ oīs figure polygonē oīs
anguli ꝓter accepti st tot rās angulis equalis quotus z nūlus qđ cui⁹ dēfectꝰ duplicat
ꝺ dēpcōs· ꝙ· ꝓmēto· ·n· quob⁹ nrīs tale hꝝ signū ꝙ z ab eo ad singulos angulos hꝝ rās
ꝙ ductis ē ꝓa fā mot tām ꝙ ꝓ quota fūnt cui⁹ anguli ꝙ ꝙ oīs angul⁹ oīm illorꝫ
tāgulorꝫ ꝙ ē accꝑ tot rās anguls erūt cālis quotus z nūlus ꝙ duplicat tām ꝙ ꝓ ē
·Cum ꝛaz oīs anguli ī quos ꝓa z ꝛsolūta ꝓmētum mē cōstāt quatuor rās cālis fū
mē ꝙ·z· mām ꝙ ꝙstat ꝙ ꝙm· Hīc quoz ꝙ ꝙ oīs figure polygonē oīs anguli ꝙ ꝓīnq; qua
tuor ām⁹ rās st cālis ·st·n· mīnꝰ ām⁹ st hꝝ tot rās equalis quot habūt angulos
dempto mō ibē ꝙ ꝙ ꝙm ē ꝙ rās st cālis qđ z ꝙm· Ex ꝝ ꝙ ꝓ penthag⁹ ꝛcta ꝓtēa tot
tur ut ſāmt ām⁹ ·a·b·c· ꝓtēa· usq; ad ·f·ꝛ·b·c· usq; ad ·g·ꝛ·c·d· usq; ad ·h·ꝛ·d·e· usq; ad ·k·ꝛ·e·a· quor
·a· usq; ad ·l· erūt ꝙ·z· duo ām⁹ ·a· ꝙ ꝓīnq; ꝛ ·a· mīnꝰ rās cālis duob⁹ rās cadūnc ·b· ꝙ ꝓīnq;
ſcāt ·ꝛ·b· mīnꝰ ē ⁊ sic ꝺ alīs ꝙ ·a·b·c·d·e· ām⁹ mīnꝰ ꝙ ꝓīnq; erūt cālis 10· rās ꝺ ꝙ ·z·
ſ mīnꝰ qui st cālis ·6· rās erūt ꝙ ꝓīnq; ·b·a·b· ꝛ·c·b·f· ꝛ·d·c·g· ꝛ·e·d·h· ꝛ·a·e·k· cālis
ꝙ rās ·z· ꝙ ꝓ ꝺcis penthag⁹ cui⁹ ꝺbz latus duo ſcāt ꝙ ꝓ cliquus hꝝ ·1· angulos cālis duob⁹
rās st alīs qui ꝙ ꝓm⁹ ꝓtēa⁹ ·a·b·c·d·e· ꝛ ſcd⁹ latus ·a·e· latus ·b·e· ī ꝓmēto ·g· ꝛ latus
·a·b· ī latus ·b·e· ī ꝙcto ·f· erūt ·z· anguli ·a·f·g· cālis duob⁹ angulis ·b·ꝛ·d· ꝙ st ꝙ ꝓīnq;
ꝺ alīs ī tām⁹ ·f·d·b· ꝺbz angulis ·f·g·a· cālis ē duob⁹ angulis ·c·ꝛ·c· ꝙ sic ꝙ ꝓīnq; ꝺ adhuc
ī tām⁹ ·g·c·e· ꝛ due ām⁹ ·a·f·g· ꝛ·f·g·a· ꝙ anglo ·a· st equales duob⁹ rās ·g· ē anguli
·b·d·ꝛ·c·e· ꝙ anglo ·a· st equales duob⁹ rās qđ z ꝙm

**Si quattuor rectis duas duas equedistantes ⁊ cālis ꝙtis alie due linee con
tingantur ꝓ quoz equales et equedistantes erunt** Sint ductē cālis
·a·b·ꝛ·c·d· ⁊ equedistantes quaꝝ ꝙm ē quilibz ꝙ ductis ·a·c· ꝛ·b·d· quas dō cālis ⁊ equidistare
ꝓbām· n· ī ām· ·a·d· ꝛ qz licēt ·a·b· ꝛ·c·d· st equedistantes ē ⁊ angulus ·b·a·d· cālis angulo ·c·
d·a· ē ꝙ ꝓma ꝓtē 29· erūt ꝙ duo latꝝ ·a·b· ꝛ·a·d· tām⁹ ·a·b·d· cālia duob⁹ latib⁹ ·d·c· ꝛ·d·
·a· ⁊ ꝛ angulis ·a·d· cālis angulo ·d·a· ⁊ angulus ·a·b·d· ꝙ est cālis ·c·d·a· ꝙ ꝙm
·b· ꝙ est cālis ·b·a·c· ſdī ꝛ angulus ·a·d·b· ꝙ ē cālis angulo ·d·a·c· ·a· ꝛ qz ꝓpōit
·a·b·d· ꝛ ·a·c· equedistāte ꝙ 2ª ꝓ ꝙbēm ⁊ cas ē cālis ꝙ ut ꝝ

**Si due linee equedistantes contenta latibz suis angulos ꝙ oblīquo collo
catos habeāt equales ꝙmeto ꝙtinente eam ꝙ medium** Sit suppositus eq
distāte ·a·b· ·c·d· ⁊ ꝙtā ·a·b· equedistet ·c·f· ꝛ ·a·c· ·b·d· ꝺ ꝙ duas latꝝ ·a·b· ꝛ ·c·d· ꝙ
duas latꝝ ·a·c· ꝛ ꝛ·b·d· ē equales ſmiliꝰ ꝺco angulū ·a· ē equale angulo ·d· ⁊ angulū
·b· angulo ·c· ꝓtēam ꝙmeto· ·a·d· ⁊ duobz ſcam illam ꝙ medium ꝙ ·n· ·c·b· ⁊ ·c·d· ſnt equa
distantes erūt anguli ·a·b·n· ⁊ ·c·d·n· qui st coalōn cālis ꝙ ꝙm ꝙtē 29· ·a· ꝛ ·a·d· ꝙ ·1· ·c·
ꝛ·b·c· ſt equedistantes erūt anguli ·c·a·d· ꝛ·b·d·a· qui st ē coalōn cālis ꝙ eāmē ī
ꝓtēa duob⁹ ī tāgulos ·a·b·d· ꝛ·d·z·a·c· ⁊ quia duo anguli ·a·z·d· tām⁹ ·1·b·d· st equales

duob⁹ angulis .d.r.a. tangat d.a.c. r latus a.d. sup qđ restant illi angulo m̄ctor tanto ꝛ
er p. .c. latus a.b. cqđ lr. c.d.r latus a.c. b.d. r angulus d. angulo c. r p. angulm .
ēdē p. equale .d. tōti p 2m geometrone liquet cō ꝓpm actr conm

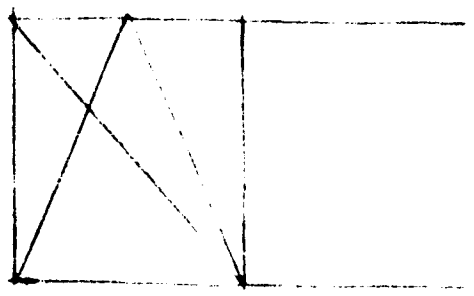
Mues ſuperficies cōſtatu latiz ſup dnam baſim atz in eiſd altitudine lineis conſtitute equales eſſe cōpliuntur ⁊ Sit due lr. a.b.r.c.d. equedistes me. duas ſuperficies latim cqđstam ſup baſim c.e.r ſup eamd baſim me. caſd lias fidr alia ſuperficies .g.e.h.c. ſimr equedistam latim d. p̄cas duas ſuperficies cqles qđ ſit p. a.n. lia. c.g. ſecta lr. lia. a.b. m aliquo p̄imcto lr. c.f. aut m p̄imcto .f. a. m aliq̄ p̄imcto lr. f.b. ſecz g. p̄m aliq̄ p̄imcto lr. a.f. ut m p̄a figura ꝛ ſit ꝛ utz duarū lrū. a.f. r .g.h. eſt cqlis .c.e. p p̄cta lna cuiꝰ c cqlis alci depta g. d. g.f. g remabit .a.g. cqlis .f.h. atq; p p̄cta lr. ꝛ .d. cqlis .e.f. ⁊ angulus . iſte angulo .g.d.c. p 2m; p̄te 2g. dr eqm cū mīo cū p 2m tangulo .a.e.g. equalis tanto .f.e.h. g fia quadrilatia q ꝛ .g.c.e.f. addita utz ē ſuperficies .a.c.f.e. cqlis ſup ſtatui .g.e.h.c. eſt ꝛ ꝓpm. Secz g lia .g.c. liam .a.b. m p̄imcto .f. utcūq; ſiat ꝛ az dr. m .a. ē trimz ſm̄ angulo p̄rion duo tanguli .a.c.f. ꝛ .f.e.h. cqles qr utcūq; addito tangulo .f.c.e. p ꝛ ꝓpm. Secz g mo lia .c.g. iam .a.b. me duo p̄imcta .f.b. ut m ; fiat ē az ſ. cabit liam .f.e.b. m p̄imcto .a. ꝛ .a. ſit angulus ꝑpon lia .a.f. eſt cqlis .c.g.h. addita ꝑ lia .f.g. ē .a.g. cqlis .f.h. ꝛ tangulus .a.e.g. cqlis tanto .e.f.h addito g. utz tangulo .e.h.c. ꝛ detracto ab utroq; angulo .f.h.g. ē ſuperficies .a.e.f.c. cqlis ſuperficiei .g.e.h.c. qđ ꝛ ꝓpm

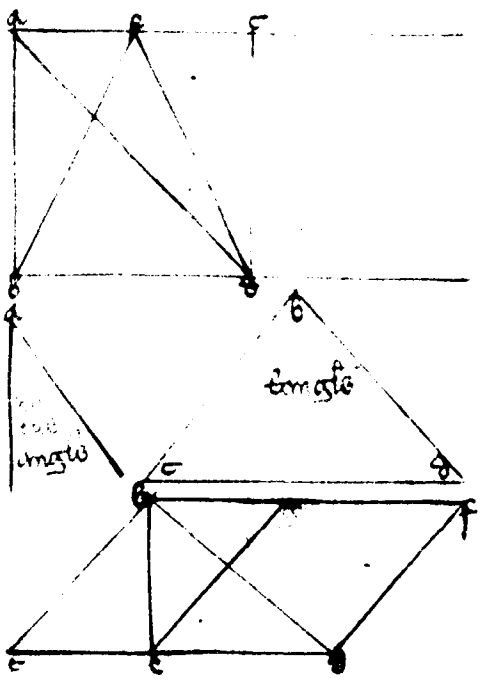
Omnia parallelogramma in dnis baſibz equalibz atz in eiſd altitudine lineis conſtituta cōſtat ee inuicē eſt ⁊ Parallelogramma dra ſuperficies equedista latia ſint due ſuperficies .b.a.b.c.d.r.c.f. g. equedista latia g ſtruxe ꝛ me duas lias equedistes que ſp. a.f. r .c.h. ꝛ ſup cqles baſes que ſint .c.d. r .g.h. d cas e cqles na ꝑpria duas lias .c.e. ꝛ .d.f. ē qz p 33m ſuperficies .c.d.p.f. ē ꝑ trauiu lam qđ ſit q e.f. eſt equalis ꝛ equedistans .c.d. na bina eiuſd cqlis ——— gh. ——— qz p ꝓpoſm utroq; duaꝝ ſuperficiū .a.b.e.d. ꝛ .e.f.g.h. eſt cqlis ſuperficies .c.e.d.f. nā ē trapez d mdſce cqles qđ ꝛ ꝓpm

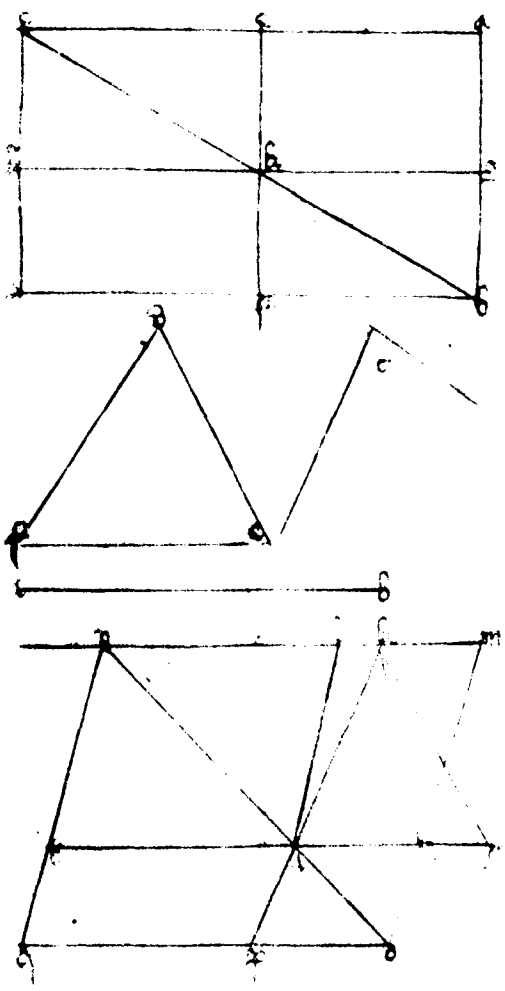
Quales ſp̄ a cuncta triangula qui ſup eadē baſim atz inter duas lias equedistes ſimul conſtituta ⁊ me duo tanguli .a.b.c. ꝛ .d.b.c. g ſtituta ſup baſim .b.c. quoꝝ .a. ⁊ .d. ſint ſup lias equedistes .a.d. ⁊ .b.c. quas ſp̄ .a.f. ꝛ .c.h. ꝛ ſup cqles baſes que ſint .b.c. cas e cqles ꝓpter .n. ē .c. equedistes .b.d. ꝛ .g.b.c equedistes .c.a. ꝓ 31. ermetz due ſuperficies .a.c.g.b. ꝛ .b.d.c. equales ꝙ ſ. ꝛ .d. ſ. ē cōmis ꝙ comm ze non erit cqles ꝙ ſ. ſam q ꝛ quor tō ſ. cqlia ꝛ dmidia ſic ꝙ ꝓpm

Duo triangula ſup baſes equales atz inter duas lias equedistantes cecidit equales ee neceſſe eſt ⁊ me duo tanguli .a.b.c. .d.e.f. conſtituti ſup equales baſes .b.c. ꝛ .e.f. cqles ꝛ inter lias .a.f. ꝛ .b.d. equedistes cas e cqles ꝓpter .n. ē .c. equedistes .b.d. ꝛ .a.b. ꝛ .f.d. ē cqlis ꝙ comm ze non erit cqles ꝙ ſ. ſam q ꝛ quor tō ſ. cqlia ꝛ dmidia ſic ꝙ ꝓpm

Si duo triangula cqles ſup eadē baſim ꝛ eodē cas ꝙ ee cecidit inter duas lias equedistantes erunt ⁊ me duo tanguli .a.b.c. ꝛ .d.b.c. g ſtituta ſup eandē baſim .b.c. ꝙ non cadant ſm̄ ad eaſdē ptes ſint ꝛ ſup eadē baſim cqles ſint ꝛ ſup eadē ptes ſint inter duas lias equedistes .a.d. ꝛ .b.c. dico qđ ſint ꝛ ſup eadē baſim cqles ꝛ ſup eadē ptes ſint inter duas lias equedistes .a.d. ꝛ .b.c. ꝛ ſi nō ſint cqles ſit .a.e. ꝓducta quoꝝ .b.d. ut ſecet lia .a.e. in ꝑncto .e. ꝛ ꝓpter .n. e .c. ꝛ ꝙ tangulus .e.b.c. eſt cqlis tanto .a.b.c. p .a. ꝛ tangulus .d.b.c. tanto ꝛ cqlis tanto .a.b.c. ꝛ tangulus .e.b.c. eſt cqlis tanto .d.b.c. q eſt impoſſibile ꝛ ſm̄ ſimr impoſſibile erit ſi dr .a.e. ē cqlis .d.f. ꝛ







ꝑsam sicut ꝓcedens ꝑ.2.a. a ꝑncto .i. ducat eq̃distans lr̃ b.f. que sit trãsmꝫ ꝓncte .c. ꝫ ꝓ̃ sm a trãseat c̃ꝰ g̃ ut .g. ꝫ ducat .c.g. ꝙd ꝓ̃ ꝑ̃ sit .g. ꝫ duca lr̃ .g.f. et ꝙ ꝑ̃ 3. tm cgle .i.b.c. cãlis tm lo .g.c.f. qr ꝫ tm gulus .g.c.f. et cãlis et m̃ g. .c.f. qꝰ ꝫ ꝑ̃ ꝓ̃ ne g̃ trãsibit ꝑ̃ trãseat g̃ m ſra ꝫ ſcã lr̃. g.c. ꝑ ꝑncto .h. ꝫ duca lr̃ h.f. et ꝫ ꝑ 38. tm h.c.f. cãlis tm lo .a.b.c. qr tm lo .g.c.f. ꝑs cõ ꝙd ꝫ impole ꝙ g̃ nõ trãsibit ni ꝑ ꝑimetrum .g. ꝑ. ꝑ̃m

3 Parallelogramꝫ tangulis ꝫ in eadem basi aut in eadem altitudine lineis constituti sunt parallelogramꝫ trianguli dupli ad conuenit

Sit parallelogrꝫm .a.b.c.g. tangulis .c.b.g. ſit basis .b.g. ꝫ ne lias .a.c. ꝫ .g. dico ꝙ parallelogrꝫm ꝓ̃ parallelogrꝫm tangulo ꝓ̃hanꝫ in parallelogrammo eisdem .c.g. et in tangulis .a.b.g. eorꝫ parallelogrꝫm ꝑ̃ ꝓ̃ .2.c. ꝫ ac tangulus .c.b.g. est cãlis tm lo .a.b.g. ꝑ .2.a. ꝑs tm li .c.b.g. et eorꝫ parallelogrꝫm .a.b.c.g. ꝙd ꝫ ꝓpo. Ducãtur enim ꝑ ꝓbam g̃ parallelogrꝫm tangulis ꝫ in eisdem basibꝫ aut in eisdem lineis equedistantes fidem ſtra parallelogrꝫm duplu et tm lo ꝙd ꝫ no ꝓsit euclides aꝫ breuit ꝓbare ꝓ ꝫ .38. diuiso parallelogrammo eorꝫ in duos tangulos ꝫ ſup basim ꝑ̃ parallelogrꝫm ꝑ̃ .i. ſit equedistantes tangulo g̃ſtruto ad quã duplu et parallelogrꝫm ꝑ̃ hanc ꝓcedente ꝫ ꝑ̃ cãlis alti tm lo ꝑ .38.

Equedistantium laterum superficiem designare cuius angulus sit assignato cãlis ꝑ̃a uo superficies triangulo assignato equalis

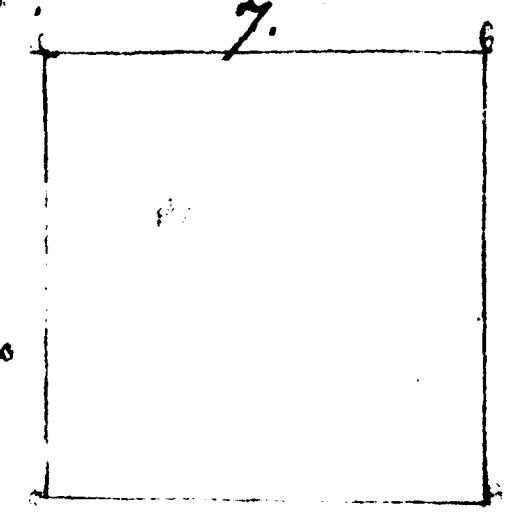
Sit angulus .a. assignatus ꝫ assignatus tangulus .b.c.d. volo describi superficiem equedistantem lateribus equalem tm lo .b.c.d. cuius uidz duorꝫ angulorꝫ ꝑ̃ ſe positorꝫ ſit cãlis .a. duplo basis .c.d. ꝑ̃ m ꝑncto .e. ꝫ ꝓ̃hanꝫ lias .b.e. ꝫ a ꝑncto .b. duco .b.f. equedistantem .c.d. et ꝫ ꝑ 38. tm angulus .b.e.d. cãlis tm lo .b.e.c. qr tangulus .b.e.d. est dimidiꝫ cõlis tm lo .b.e.d. g̃ sup ꝑimetrũ .e.b. g̃ſtruo angulũ .d.e.g. cãle angulo .a. ꝫ ꝑ ſtruo parallelogrꝫm .g.e.d.f. q. qr ꝑ ꝓbam parallelogrꝫm est duplu ad tangulũ .b.e.d. et ꝫ equale tangulo .b.e.d. ꝑ ꝓmissã regulã quorꝫ dimidiꝫ est cãlis ꝑ̃a ſt cãlia est .n. tm lus .b.e.d. uidz dimidiꝫ qr describitur parallelogrꝫm .g.e.d.f. cãle tangulo .b.e.d. cuius uidz duorꝫ angulorꝫ .g.e.d. ꝫ .d.f.g. et cãlis .n. ſto .a.

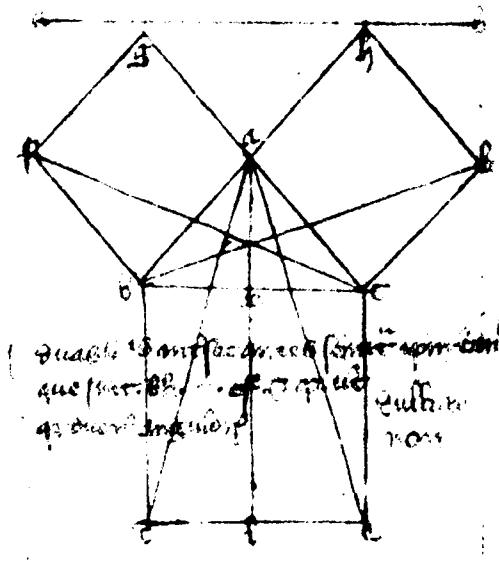
Omnis parallelogrammi spatii eorꝫ que circa diametrum ſt parallelogrammoꝝ supple ea equa sibi undiq; et nõ est

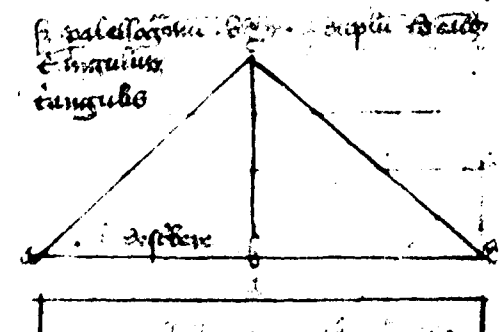
Sit parallelogrꝫm .a.b.c.d. in quo ꝓ̃ham ſit .b.d. ducam .e.f. equedistantes uidz duorꝫ latꝝ .a.b. ꝫ .c.d. ꝫ ꝓ̃ ꝑncta .k. ducã .k.g. ꝫ ꝓ̃ ꝑncta uidz duorꝫ latꝝ .a.e. ꝫ .b.d. ducam ea quidꝫ ſecz b̃ latus .a.b. ꝫ .c.d. ſecz cõ .g.k.h. et ꝫ parallelogrꝫm .a.g.e.h. dico ꝙ parallelogrammoꝝ duorꝫ .d.e. et .c.k.h. ꝫ .g.k.b.f. dig ſſte et dyametrũ nullũ duo .b.a.e. .g.k. ꝫ .k.h.f.d. dig ſupplet ea ſ duo supplemẽta ea ꝙ ꝫ cãlia ſunt .n. duo triangula .a.b.c. ꝫ .c.b.d. cãlis ꝑ corrm ꝫ .e. ꝙ ſunt duo tm li .g.k.b. ꝫ .f.b.k. ſt cãlis ꝑ ꝙd corrm ꝫ ꝑ̃as ꝙ duob tangulis .b.g.k. ꝫ .k.e.c. de cõli tangulo .a.b.c. et duob ꝫ tangulis reliquis .b.f.k. ꝫ .k.h.c. de cõli tm lo reliquo .c.d.b. erunt ꝑ ꝙnũc ſtram reſtua que ſt duo supplemẽta equalia ꝙd ꝫ ꝓpom

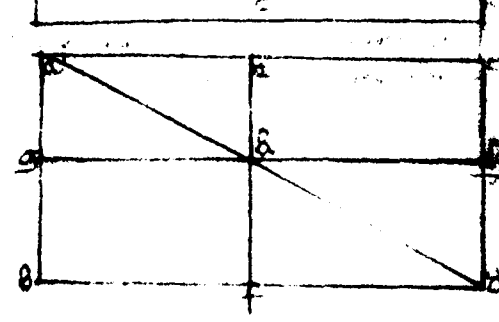
Proposita linea recta ſup eam superficiem equedistantium laterum cuius angulus sit angulo assignato cãlis ꝑ̃a uero superficies assignato triangulo cãlis describere

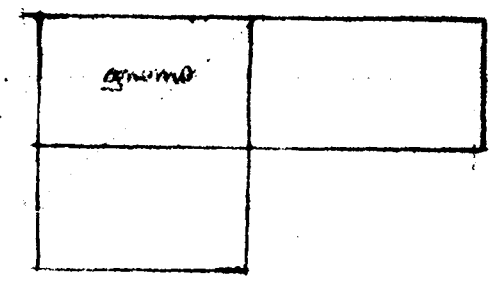
Describende ſuperficiei equedistantium laterum ſuperficiẽ ad ꝓpositam lr̃ facie latus unũ ꝓpositarum ſt ꝙ data lr̃ a.b. ꝫ datus an l. c. ꝫ dat tangulus .d.e.f. ſup liam .a.b. volo describere ſuperficiẽ unã equedistantium lateri lr̃ a.b. ſit unus latus equalis eius duorꝫ uidz duorꝫ angulorꝫ ꝑ̃ ſe positorꝫ ſit cãlis angulo .c. ꝫ ꝑ̃a cõis superficies ſit cãlis tangulo .d.e.f. describã a lr̃ a.g. ꝫ hic dat latus unũ superficiei describende .a.b. ibi a multiꝫ ꝙd uolo facere addã .a.b. ad utrãq; ſtrictoꝝ lr̃aꝝ .a.g. ꝙd ponã cãle lr̃ e.f. basi tm li dati sup ꝙ ſtruo tm lr̃ unũ et cãlem ꝫ cãlatis ꝙd ꝙd mo facio ꝙ ſtruo angulũ .a.g.k. cãle angulo .e. ꝫ angulũ .g.a.k. cãle .f. ꝑ .23. ꝫ ꝙ .g.a. ponã fidat cãlis .e.f. et ꝑ .26. tangulus .g.a.k. cãlis ꝫ equalatus .e.f.d. ducta g̃ .g.a. ꝑ cãlia m ꝑncto .h. ꝫ ꝓ̃ham .k.h. ꝫ ꝓducam ad ꝑncta .k.l. .m. ban. cãlis tangulo lr̃ .g.h.b. et ꝙ ꝑ 28. tangulus .a.h.k. cãlis tangulo .g.h.k. tunc sup ꝑncta .a.k. .g.l. fiaram angulũ .g.a.l. equale angulo .c. dato ꝫ applebo sup basim .a.h. me lias .g.b. ꝫ .m.n. equedistantes sup latꝝ equedistantium latum .m.l.h.a. que ꝑ .41. duple et ad tangulũ .k.h.a. qr cãlis cõli tangulo .k.g.a. qr ꝫ tangulo .d.e.f. ꝓpo. ꝓ deinceps .b.n. equedistãtes .a.l. ꝫ ꝓducam dyametr .n.a. ꝙ ꝓ̃ha quousq; occurrat g̃ m .h. ꝫ ꝑncto .o. ꝫ applebo sup ſcã equedistantium lr̃ latum .m.o. et ꝙ ꝓ̃ham .l.a. usq; ad .p. cui ꝫ ꝑ̃ens ſupplementũ .b.a.p. .q. equale ſupplebo .m.l.h.a. qr tangulo .d.e.f. ꝫ ꝑ .29. angulus .l.a.k. est cãlis angulo .b.a.p. qr recto .b.q.p. cãlis angulo .b.a.p. qr sup datam lr̃ .a.b. describam ꝫ superficiem equedistantium











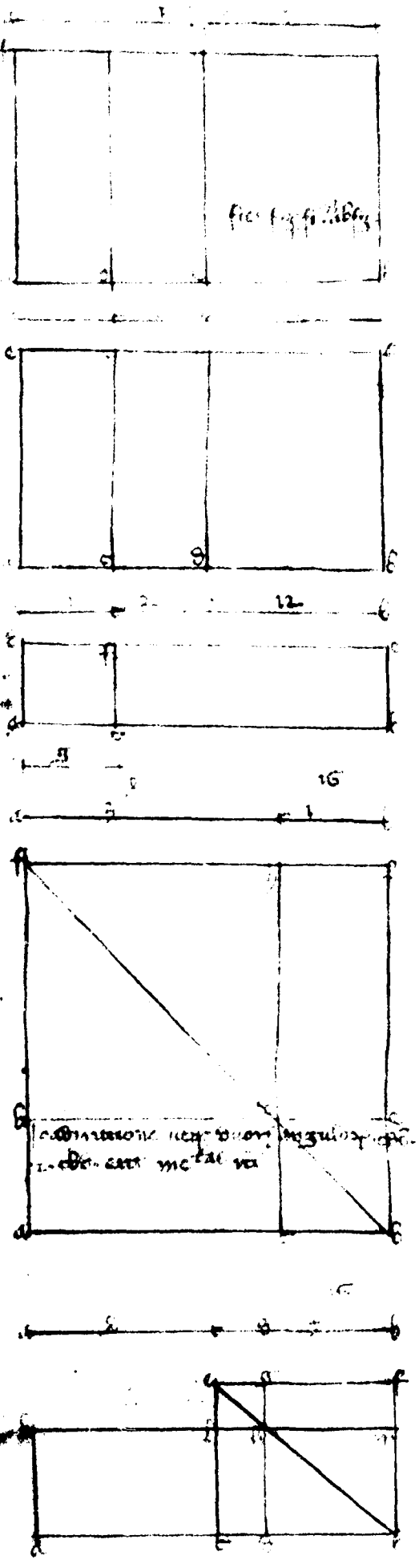
v datu linea quadratum describe

n orthi triangulo rectangulo quadratum qd a latere recto angulo oppositum in semicirculo ipso ducto describitur equum est duobus quadratis que ab duobus reliquis lateribus constituuntur

i quadratum qd ab uno cathetorum latere in semicirculo ducto describitur equum fuerit duobus quadratis que a duobus reliquis lateribus describuntur rectus est angulus cui latus illud opponitur

mne parallelogrammum rectangulum sub duabus lineis angulum ambientibus datum contra

mne parallelogrammum cuiuscunque figure quarumcunque linearum angulum rectum ambientium



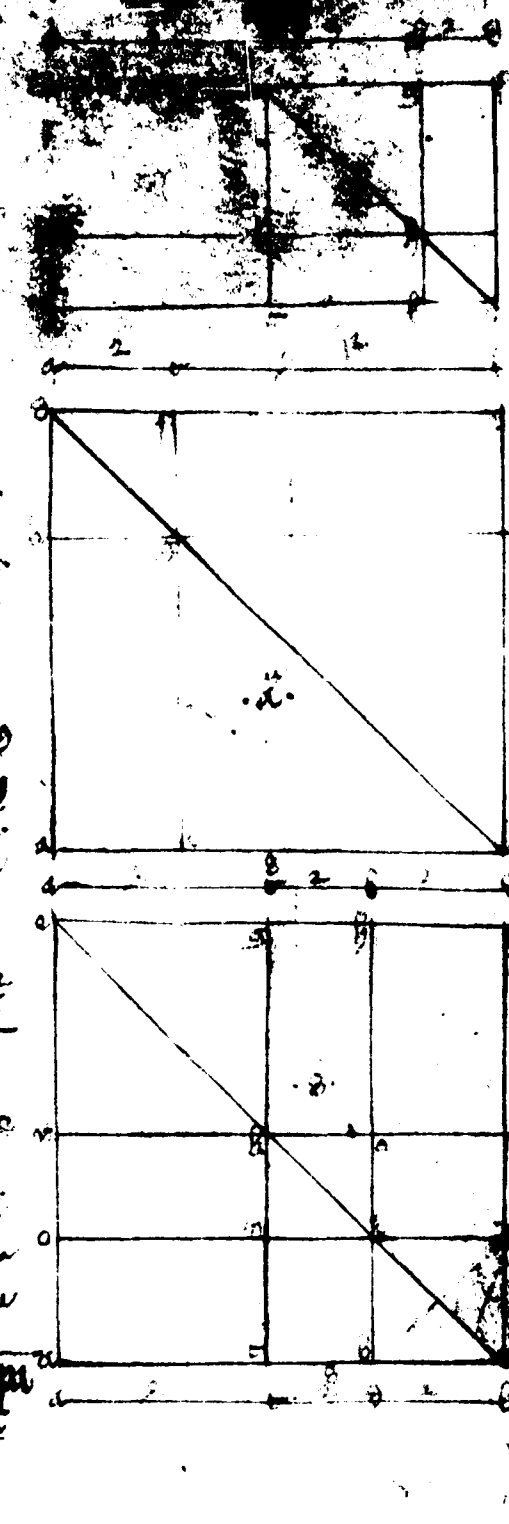
altus m altum fiet equum erit linee que ex ductu linee m duuse m duas ptes
tem linee ptriculatim duuse rectangula p̄uenient ham m alia lia duct est sup
cones omnib⁹ cui⁹ due has ortho⁹ alti equales erige⁊ supfic⁊ cōtinētes latum rectangu
que sub illis duabus p̄ diffinic̄ gen̄ p̄mum ... duct ... m ...
duuse ... sint a·g·d·d·e·⁊·c·b·d° q illud qđ fit ex·c· m rectm a·b· equū est eis paribus
logmus rectis sint uctus que fuit ex·c· m a·b·⁊ m·d·e·⁊·e·c· sup̄ p metrum ...·⁊·f·e
g·m ductus a·f·⁊·b·g· ducta ua· f·g· que p diffinic̄ p̄duct ex·c· m a·b·⁊ sub p̄s duab⁹ gen̄
p̄thiam g ap̄metus d·e·⁊ b·d·⁊·e·b· equedistantes lās a·f·⁊·b·g· et z b̄z illis equ
p z· p uic̄z eaq est cāub·a·f· p diffinic̄ g rectis a·d·fh· p duct ex·c· m ·d·⁊ sub illis d
gonis rectis g·h·e·b· ex· m·d·c· et rectis e·k·b·g· ex·c· m·e·b·⁊ q hec rectis
ductus p cālia tōti rectis ·f·b·g· p z ꝑpos

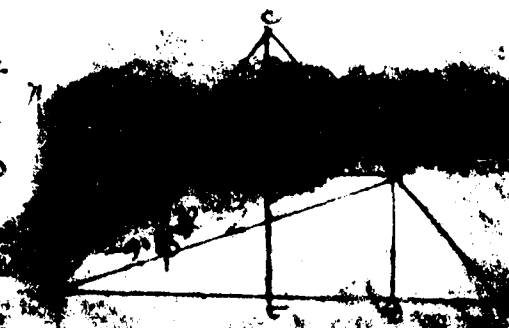
Si fuit lia in ptes duusa illud qđ ex ductu tot hec sep fit equū erit
linis que ex ductu cuiꝰ in omes suas ptes Sit lia a·b· duusa m·a·c·⁊·c·b·
⁊·d·b·d° q illud qđ fit ex ductu totius·a·b· m sc qđ fit·a·c·b·f· equū est his que fiunt ex pib⁹ tōm
duabz suar ptiu qđ patebit ductis·c·g·⁊·c·h· equedistan·a·c·⁊·b·f· Alie fiat lia cālis
·b· cui⁹ p̄ma fit ex ductu lie m tōm·a·b· equū ... fit ex ductu ... ptes ...
⁊·p ex·k· m·a·b· tm ⁊ q· ex·a·b· m sc⁊ rep·him omes ptes ... q· ex ...
⁊·a·b· sc equalib⁹ ...

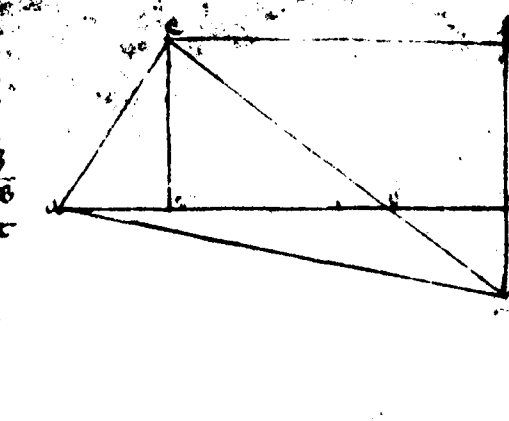
Si fuerit lia in duas ptes duusa illud qđ fit ex ductu totius in altum p
tem equū erit linis que ex ductu cuiꝰ ptis in sepam⁊ altus in altū
ptem Sit lia a·b· duusa m·a·c·⁊·b·c·d° q illud qđ fit ex tōt·a·b· m eius prem equū ...
ex cuiꝰ p̄e·a·c·⁊ ei qđ fit ex cuiꝰ ptc·e·c· m·c·b· fiat ... ·c·b·f
⁊ p fiat rm sup̄fic̄s·a·b·d·c· p̄dictis z p̄m Alie fiat ... g· cālis ... tm ...
·a·c· m·a·b· cq ⁊·a·c· m·a·b·⁊ m·c·b·⁊ m sc rm ... g· m cui⁹ ... g· m tōm·a·b· q m·a·
·c·⁊ m·c·b· p̄ma huius p̄z p̄z ... m·a·b· q rm ... m·a·b· q m sc⁊ m·c·b· q⁊ ⁊ cq·a·b·
m·q·c· q· ·a·c· m sc⁊ m·c·b· qđ uolum⁹ demonstr·

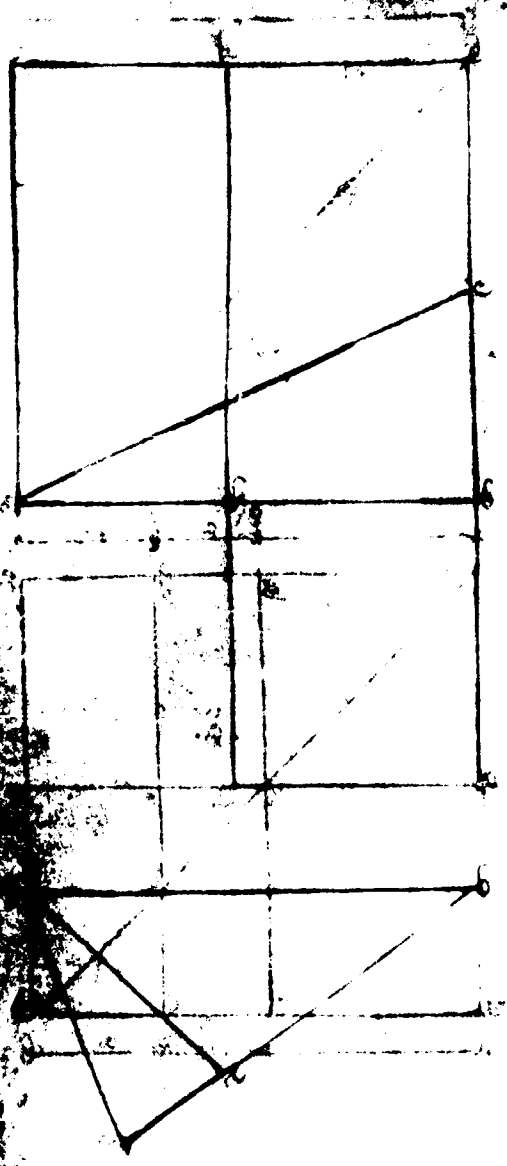
Si fuerit linea in duas ptes duusa illud qđ fit ex ductu tot sepam equū
linis que ex ductu ut⁹ in sepam ⁊ali⁹ ptes ⁊alib⁹ ptib⁹ ex hm⁹di
se ex in omi quadrato due superficies quas diuisa scam p̄ma sc abe quadrate
Sit lia a·b· duusa m·a·c·⁊·c·b·d° q q̄drat tot·a·b· equū ... quoꝝ duum ...
plo eius qđ fit ex ductu hm⁹di cui⁹ m altum ... q̄drata ... ·c·b·⁊ du
ung̃a gno⁹ ex ductum altius lie ... a·c· qđ faciam hm⁹di m ... ⁊ tercio p̄thiā ...·b·
apmeto·a· educta ... lias a·b· que sit ·i·k· ... ·i·k· ... ·b·g· p̄thia quius ... m
to·f·⁊ apmeto·f· educta ... lie a·b· q· ·b·f·h·⁊·b·c· p̄ducta quo⁹ ... m
to·g·⁊ p̄ducm·c·b· us ad·h·⁊·c·b· us ad·k·⁊ z duo lata ·b·c·⁊·c·b· ... ·b·c·b·
ēgua erunt z q̄m p duo ... ·c·b·b·⁊·c·b·b· equales ⁊ qz angulus ·c· est ... z p z· p
bz cor me tab ra q· p ... p ... ·q· p ... duus quus ... ·h·f·b ⁊·h·b·f·⁊·a·
f·b·⁊·k·b·f· me tab ra ... p ... ·f·g·⁊ ... ēales ... quo⁹ ... ·⁊·f·
·h·b·de·f·k·⁊·k·b· quar⁹ p̄z duas ... ·a·b· ... ·k·b·h·b· ... ·h·
z ādratum lie ·a·b· q̄drat tot duob⁹ ... aue ... ⁊ ... que ... qua ...
·c·⁊·c·b·⁊ tot duob⁹ ... quor⁹ ... ·a·c· ... ·b· p̄z ... Alia ... ·a·
ur duo duusa m·a·c·⁊·c·b·⁊ p z p ... qđ fit ex tōt·a·b· m p̄e equū ... ·m·
⁊·c·b· ⁊ ex p̄a m·a·c· ... fit ... ex ... ·m·
m·c·b· fit tamen ... ex ... ·m· ... ex ... ·a·b· m ... qđ
fit ex·a·c· m sc⁊ m·c·b· ⁊ ex·c·b· m ... ·a·c· ... ·a·

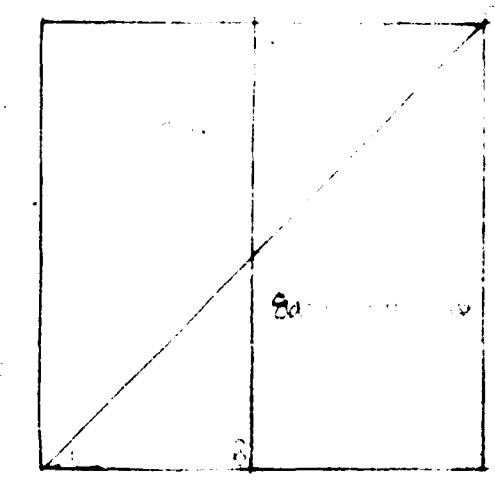
Si linea ra in duo ēalia duoz ⁊ēaliū ... ex ... ·m· ... ·c· ...
equalib⁹ totius sectiones ⁊ang̃lis ... quadratis ... ex quadratis ... altero ...
in utraz sectionū ... equū est ⁊ quadrato ... ex ...
ducto ... Sit lia a·b· duusa ⁊ equalia m ... ·c· ... ·m·
quadrata ·c·b· ·c· cālem quadrato ·c·d· ... ·c·
·c·b· f·c· m alio p̄thiam ... ·b·c·⁊ ductam ·b· ... equedistantes ...
punto·h·⁊ apmeto·h· ducta equedistantes ... ·a·b· ... ·m·
⁊ lias ·c·c· m punto·l· ⁊ p̄thia ·a·k· ... ·c· ...
sectis ·l·g·⁊·d·m· quadrata ⁊ ...

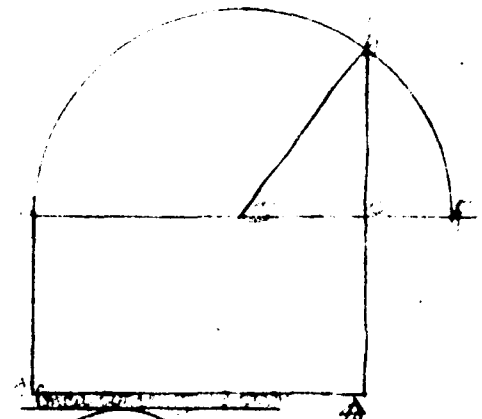


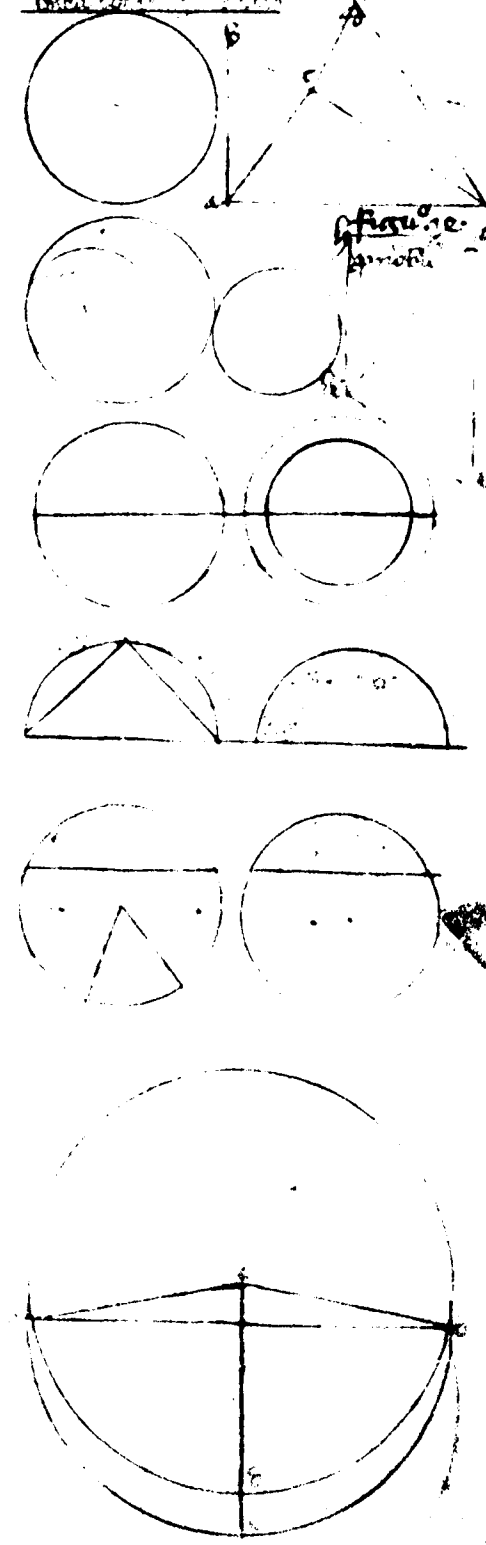


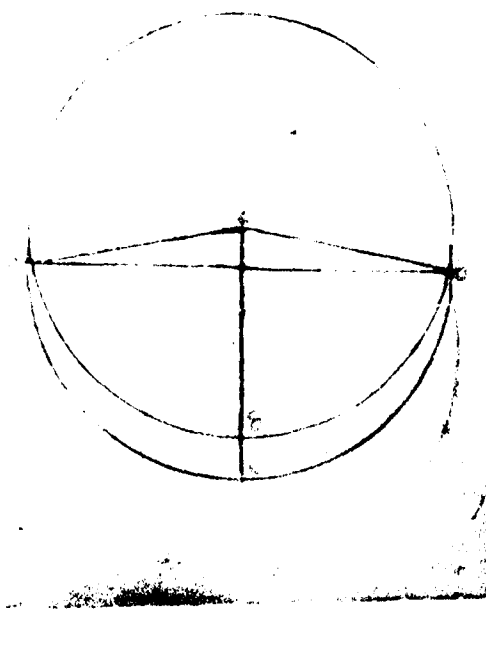






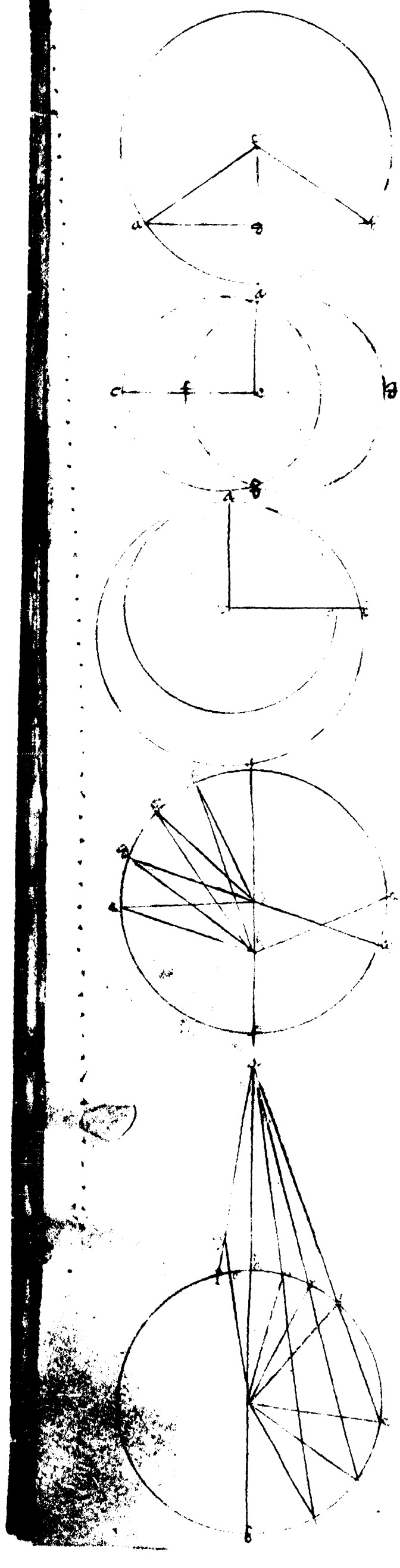






ato trigō equi quadratum describere

uos dicunt ee ꝙ ꝓ ꝑ ꝓ ꝑ ꝓ ꝑ



Iuncq̃ iuncta arctius ꝑter centrum collocatam, alia duas ꝑmittit ꝓ eq̃ sectas ortho-
gonaliter sup eam insistit. Et si in eam ortho⁹ steterit eam ꝑ eq̃lia diuidet. Nec est
enim lineam .a.b. collocatam huius circuli .a.b.c. centr⁹ sit .e. lin⁹ .c.d. demens a centro diuidat
ꝑ eq̃lia d⁹ q̃ dicit eam a rectho⁹ cui ipsa q̃ diuidit est ortho⁹ diuidit eam ꝑ equalia .g. diuidat lin⁹ .g.
.a. et .e.b. et ponit ꝑmo q. diuidit eam ꝑ eq̃lia et mittit duo lin⁹ .e.d. et .d.a. eam .e.g. a eq̃lia duobz
latẽbz .e.d. et .d.b. et angul⁹ .e.d.a. angulo .e.d.b. et .d. sit rectus. Et ꝓ .d. angulus .d.m⁹ equalis angu-
lo alteri⁹ duoz rectoz .e.d.c. Itez ponit sup lin⁹ .a.b. ꝑpendiculariter lin⁹ .c.d. et ostendit q. ipa diuidit .a.b. ꝑ eq̃lia. Et ꝓ hanc ipsam rectitudinem angulor. qui sunt .d. recti q̃libet
horum eq̃lium alteri et ut ꝓ hanc ipsam rectitudinem angulor. .e.d.a. est eq̃lis angulo .e.b.d. et latus .e.a. lateri .e.b. ꝓ e
cuius et lin⁹ .a.d. equalis lineę .e.d. ꝓ ꝙ

I mera circulum duę lineę semꝫ rectę secẽs et sup centr⁹ non trãsseant ꝑ eq̃lia e
as sean necesse est. Sit ut mẽ⁹ .a.b.c. circul⁹ centr⁹ sit .e. et lineę .a.c. et .b.d. sece-
sembz in puncto .f. quarum neq̃ aliqua non trãsseat ꝑ centr⁹ ꝓ ꝙ ipse non diuidit esse ꝑ eq̃lia ita
q. neutra ꝑ equalia diuidatur ab alia q̃ sit fieri possit ꝓ ponat et sit ꝑmo ut neutra trãsseat ꝑ
centr⁹ a centro .e. quare linea .e.f. erit ꝓ ꝓma ꝓpe semisse duorum aut⁹ qui sunt .a.f. .e.c.
.f.c. .b.f. .f.c. .e.f. .b.f. et ꝓ ꝓma ꝓpe semisse duorum aut⁹ qui sunt .a.f. .e.c. et .b.f. .f.c. .e.f. .b.f. et ꝓ mpo⁹ sit .a.f. recto esse minor .e.c. sit ꝙ ut aliqua earum trãsseat ꝑ centr⁹
et alia non sit .e.b. q. ꝙ mpo⁹ ꝓ centr⁹ .e. adhuc ꝙ ꝓ non diuidunt esse ꝑ eq̃lia q̃ sit et ꝓ ꝙ
ꝓpe .a.b. .g. ducta. Quia ergo diuidit .a.c. ꝑ eq̃lia erit ortho⁹ ꝙ .a.c. diuidit .b.d. ortho⁹ et .a.
.c. diuidit ipsa .e.g. ꝑ eq̃lia ut ꝓbat ad⁹ ꝙ ꝓ ꝓma ꝓpositione ꝑ centr⁹ ꝑ centr⁹ ꝑ hoc ꝙ ambe trãsse-
unt centr⁹ ꝙ ꝙ.

Circulor⁹ secẽtiu centra diuersa esse. Sint duo circuli .a.b.c. et .a.d.b. secẽtes se sup duo ꝑncta .a. et .b. dico ꝙ centr⁹ q̃dez ꝯ ꝓpositum
sit non habebunt idem centr⁹ ꝑ ꝓ. Si ꝓ diffinitionem ꝑ positionem ut ꝑ hoc ꝙ sit illud .e. et ducantur lineę .a.e. et .e.
.f.c. et manifestum ꝓ diffinitionem ducte .a.e. et .e.f. equales sunt ꝑ diffinitionem ducte .e.a. et .e.c. cãlis ꝙ
.e.f. est equalis .e.c. quare cum sit cãlis .e.a. pars iudex tot ꝙ ꝙ mpo⁹.

Circulor⁹ sese contingentiu non idem est centrum necesse est. Sint duo circuli
.a.b.c. et .a.e. contingentes se in ꝑncto .a. dico ꝙ centr⁹ non est idem. Si enim habeant idem centr⁹ ꝑ diffi-
nitionem et mora manifestum est. Sit ergo idem centr⁹ .d. et ducantur lineę .d.a. et .d.b.c.
.b.e. et ꝑ diffinitionem utique due sunt lineę .d.b. et .d.e. cãles .a.d. ꝙ ꝙ mpo⁹. De circulis autem sese contingentibus ꝙ
quoꝝ unus est extra alterum manifestum est ꝙ ꝑ ꝓ non habent idem centr⁹.

I ꝙ libet circuli ꝑncto signato et ab eo ad circumferentiam
plures lineę ducantur, ꝙ sup centr⁹ trãsiens omni extra longissima. Cui uero quidem ꝑpin-
qui omni breuissima. Quarum ad centrum ꝓpinquiores remotioribus longiores. Quanto uero accidit remo-
tiores tanto breuiores. Ex eodem autem duas quoque equidistantes breuissime. Col
latibiles equales esse necesse est. Sit ut ꝓ dixi⁹ circul⁹ .a.b.c. et ꝙ centr⁹ sit .h. sit signatum .k. ꝑ
centr⁹ a quo ducantur plures lineę que sint .k.a. .k.b. .k.c. .k.g. .k.e. .k.f. .k.g. ad circumferentiam et conuincatur
.a.k. ꝑ centr⁹ .h. et .k.f. ut sit quoniam ꝓ dixi⁹ (dabile) ꝙ .k.f. .h. et dico ut angulus .e.k.
.f. sit cãlis angulo .g.k.f. ꝓ ꝙ .k.a. est omni longissima et .k.f. omni breuissima a ꝑ uero circumferentiam ꝓpinquior
ꝓpinquiori .g.e. .k.b. est longior .k.c. et .k.c. est longior .k.d. et .k.d. .k.e. longior .k.e. et .k.e. .k.g. sunt
equales. Quia enim media linea .b.h.k. duo latera .b.h. et .k.h. ꝙ 20. ꝓ sunt maiora latere .b.k. et ꝓpa sunt
equalia lineę .a.k. et .a.k. maior .b.k. et cadrans maior omnibz aliis et .h. ꝙ ꝙ. Itez ꝙ media linea
.c.h.k. duo latera .h.k. et .k.c. ꝙ cum dimidia sint maiora latere .h.c. ꝙ et cãlis lineę .h.f. ꝓpa enim maiora .h.
.f. sit demꝑta ꝙ lineę que sunt .h.k. remanebit .k.c. maior linea .k.f. cadrans autem quelibet aliarum et maior
ꝓpa et .h. ꝙ. Itez ꝙ duo latera .b.h. et .k.h. tam lineę .b.h.k. sint cãlia duobz latẽbz .e.h. et .h.k. tam lineę
.e.h.k. et angulus .b.h.k. est maior angulo .e.h.k. et ꝓpter ꝙ ꝓ basis .b.k. maior basi .k.e. et
ꝓpter hoc .e.k. maior .k.g. et .k.g. maior .k.e. et .h. ꝙ. Quia duę lineę .k.g. et .k.e. non sint cãles
et alia maior sicut .k.g. ꝓpter hoc ꝙ ꝓ ꝓma .k.l. cãlis .k.e. et ꝓducta .h.l. quousq̃ secet cãlem ad ꝓ
to .m. et ꝙ ꝓ ꝓpositum angulus .g.k.f. est cãlis angulo .e.k.f. et ꝓpter ꝙ ꝓ angulus .l.k.h. cãlis
angulo .e.k.h. et duo latera .l.k. et .k.h. tam .l.k.h. sint equalia duobz latẽbz .e.k. et .k.h. .g. ꝓ
ꝓ basis .h.l. est cãlis basi .h.e. et ꝙ .h.m. est cãlis .h.e. et .h.m. cãlis .h.l. ꝙ ꝙ. Itez ꝙ
duę lineę .k.g. et .k.e. cãles ꝙ ꝙ ꝓpositum.

I contra circulum ꝑncto assignato ab eo ad circumferentia plures lineę circuli sece
dentes ducantur quę sint centrum tãsserit omni extra longissima. Centro autem ꝑ
quiores remotioribus longiores. Lineę uero ꝓtiales ad circumferentiam ex

trinsec⁹ applicate ei q̄ indem que diametro in dictu adiacet om̄ est equidistans ei q̄ p̄pinquiores cētr̄ remotioribꝫ breuiores. Due uero breuissime dictis equepinque equales sūt. Tue ut a punctō a assignato ꝯ̄ cētr̄m b.c.g. cui⁹ cent⁹m sit e. n. ducatur [illegible] cōsentit secunde q̄ est a.e. n.b a.n.c. ang⁹ a. r.c. d⁹ q̄. a.b. tāgens p cent⁹m om̄ est lon ma⁹ q̄. a.c. est maior a.d. q̄. a.d. maior a.e. q̄ q̄. a.k. ē breuissima equidistans q̄ a.h. est mior a.f. q̄. a.g. mior a.f. q̄ d⁹ q̄ sūt ducte a.l. ē q̄ pot̄ q̄ a.h. ē q̄ alie distent ab a. [illegible] q̄ maxime. Hak est [illegible] rpe cētr̄ cōlib⁹ q̄ducto. n. a cent⁹ n. li neab. n.c. n.d. n.e. n.f. n.g. n.h. cētr̄a p. 20. p̄ duo latera a.n. q̄. h.c. ē maior tertio a.l. n.c. ma⁹ a.c. q̄ una pars est equalis tertie a.b. et a.b. maior a.c. cadit rane et maior omnibus aliis ab ei p̄ et [illegible] duobus [illegible] est equalis duobus lateribꝫ a.n. q̄. n.d. tertio a.l. n.d. q̄ angulus a.n.c. est maior angulo a.n.d. et p. 24. p̄ basis a.c. maior basi a.d. cadit rane et a.d. maior a.e. q̄d̄ patet. Et q̄ una p̄ q̄ p̄ ducte a.h. q̄. h.n. sūt minores q̄ latus a.g. q̄. n. q̄. h.n. est equalis g.n. et p q̄ā partem a.g. maior a.h. cadit rane cētr̄ a.f. maior a.g. q̄d̄ patet. Et ex hoc q̄ in triangulo a.h.n. duo latera a.h. q̄. h.n. sūt minora a.n. p. 20. p̄ q̄. h.n. est equalis n.k. et p q̄ā partem a.h. maior a.k. cadit rane quelz cētr̄ infra cetus applicatus maior et a.k. q̄d̄ patet. Et [illegible] equalis a.h. q̄ rpe sunt cētr̄ equales distantes ab a.k. et alia maior stet a.l. ponit q⁹ a.m. equalis a.h. q̄ quidem n.o. m. q̄ q⁹ duo latera m.n. q̄. n.a. tertio m.n.d. sūt equalia duobus a.n. q̄. n.a. tertio h.a. q̄. a.n. et equalis m.n. q̄ angulus m.a.n. est equalis angulo h.a.n. et p. 4. p̄ basis n.m. equalis basi h.n. q̄. n.o. est equalis n.h. et n.o. equalis n.m. pars toti q̄d̄ impossibile est.

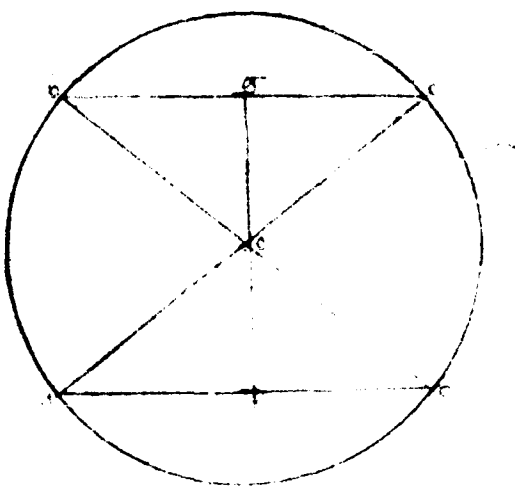
Ip̄ circuli circūferēcie duobꝫ p̄nctis signatis linea recta ab altero ductam ad alterum circulum secare necesse est. Sit circūferēcia equalis a.b. cui⁹ cent⁹m sit c. sint signata due puncta que sunt a. et b. q̄ recta ducens eum galeo secabit eum alioquin cadet extra ei⁹ sit recta a.e.b. que recta sit ducta c.a. q̄. c.b. erunt q̄. q̄. p̄ anguli c.b.a. q̄. c.a.b. equales q̄d̄ p̄ quinta. Et cetera c.e. que secta extra m̄ puncta d. et q̄. p. 16. p̄ angulus a.e.c. maior a. c.b.e. quare maior m̄lo c.a.e. sit p. 18. cui⁹ latus a.t. minus est latere c.e. q̄. q̄. c.d. e equalis c.e. et c.g. maior c.e. pars toti q̄d̄ impossibile q̄. q̄ducte conuenient duo puncta a.b. nō existente ei⁹ circuli secabit eum q̄d̄ p̄positum.

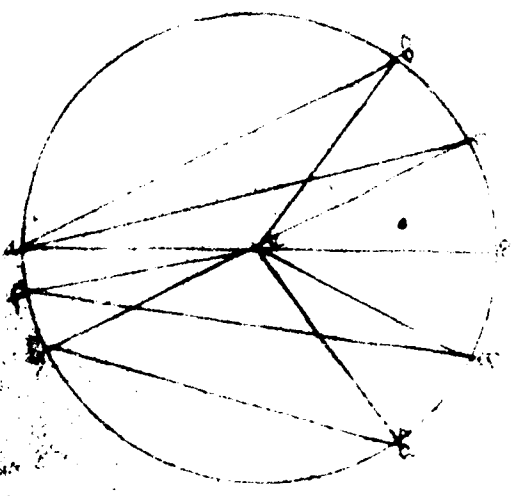
Inter circulum p̄cto assignato p̄nctum q̄ducte linee ad circūferēcias sint equales illud centrum circuli esse necesse est. Sit ut a punctō a assignato mē et b.c.d. circūferēcia. Et sint a.b. a.c. a.d. ad circūferēcias quelz ponantur equales duo puncta a. et cent⁹m centrum quesitum. n. Dicas b.c. q̄. d.c. q̄ quidam diameter erit q̄ cētra. e. q̄. d.e. q̄ in puncto f. q̄ producta e.a. q̄. f.a. ad applicabo cōsentiet q̄ ce. q̄. p. 3. p̄ dez angulorum ad a. q̄. [illegible] sunt equi quorum q̄ anguli quelz. e.a.f. nō q̄ q̄ continent p̄ basim q̄. e.f. equalia q̄ orthogonia q̄d̄ impossibile est. Similiter quoz. e.f. impossibile q̄ cent⁹m q̄ducat. d.e. q̄ cētra q̄ orthogonia q̄d̄ est centrum q̄d̄ q̄ppositum.

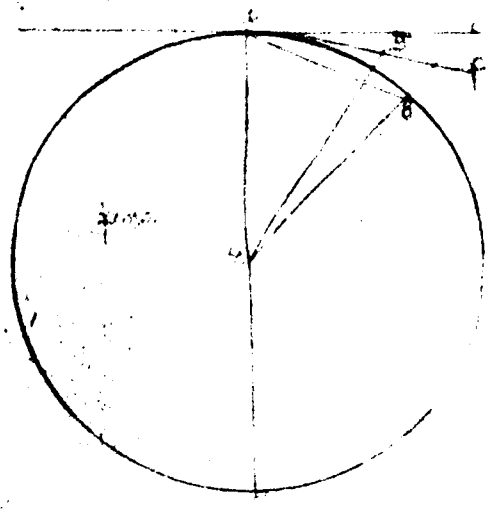
Circulus circulū secans in duobꝫ tm̄ locis secare necesse est. Sint si pot⁹ duo circuli concentrici se in p̄dictis duobꝫ locis sup̄ q̄. in duobꝫ locis sup̄ q̄. puncta a.b.c. q̄ducte linee a.b. q̄. a.c. quas diuidat q̄ cētra in puncto d. q̄. e. q̄ producto a puncto e. ad f. cet. Tue ex hijs a.e. q̄. e.f. in puncto f. et q̄ cent⁹m p̄ius puncto d. et e. cētra.

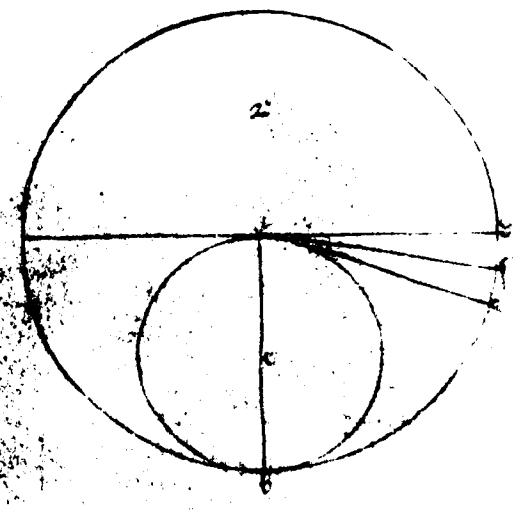
Circulus circulum cōtingit linea q̄ extra cos [illegible] tāgat ad punctū cōtactus eam applicari necesse est. Si non tāgens q̄ cent⁹m cōtingat ei⁹ ut sit a.b. q̄. a.c. cadet q̄ locum tactus sectā cōsentiet. Dicas sit a. cent⁹m circuli d.e. et a.b. cent⁹m circuli f.g. et a.b. secabit cōsentiet. Dicas ut a punctō c. quod sit in [illegible] ducat⁹ sit c.b. q̄. c.d. et q̄ c.b. maior c.d. q̄. q̄. c.b. maior c.a. et q̄. q̄. c.b. longior c.a. et similiter c.b. longior c.d. q̄d̄ est impossibile. Et cetera. Et si c.b. minor c.d. q̄. q̄. c.b. minor c.a. et q̄. q̄. c.b. minor c.a. q̄d̄ impossibile. Igitur tactus b. cōtingit eum. Dico q̄ nō alibi. Si enim a.b.c. secet eum ut in d. et e. q̄. q̄. a.d. q̄. a.e. sunt equales. Et cetera.

Circulus circulū siue extrinsecus siue intrinsecus cōtingit in uno tm̄ loco cōtingere necesse est. Si enim fieri p̄t circulus circulum geminis in duobꝫ locis tangat ut sint a.b. et c.d. et cētra sint e. et f. et a.b. maior c.d. et a.b. et c.d. sint equales. Et cetera. Et a.b. et c.d. sint inequales. Et cetera.





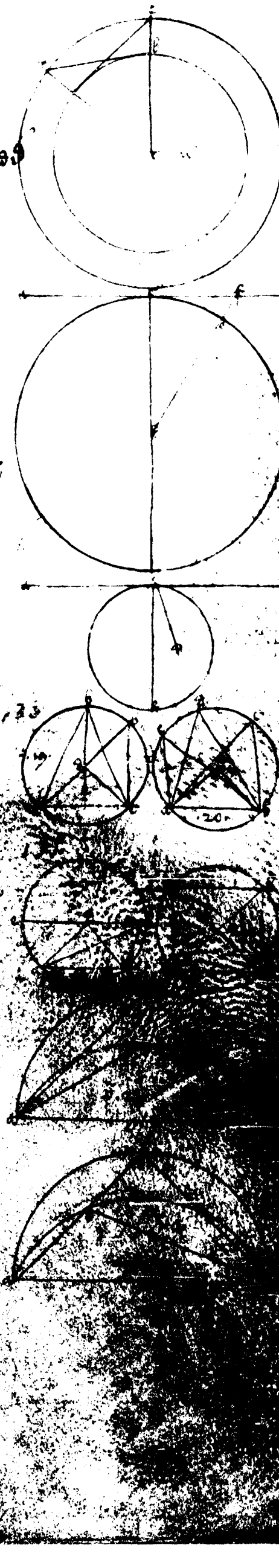


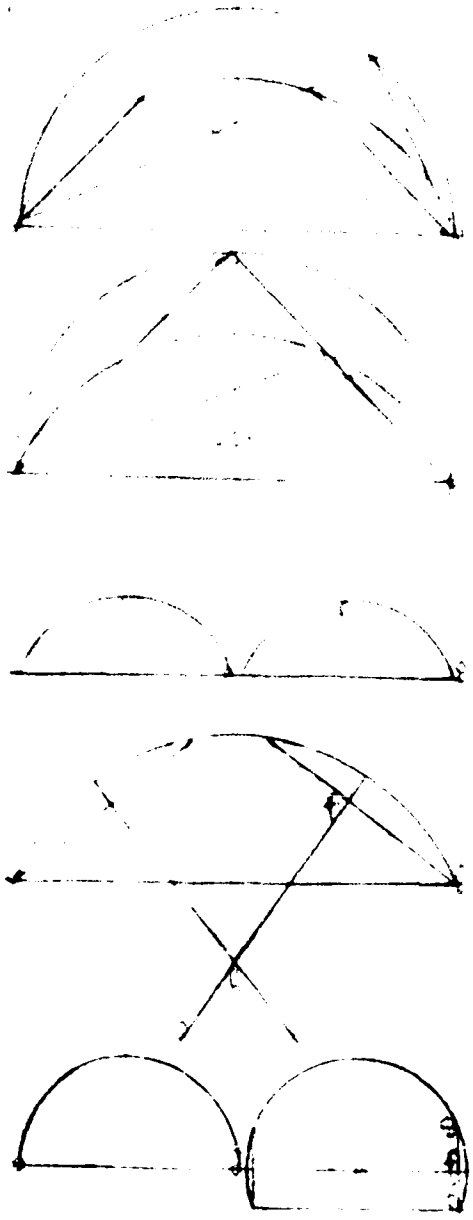


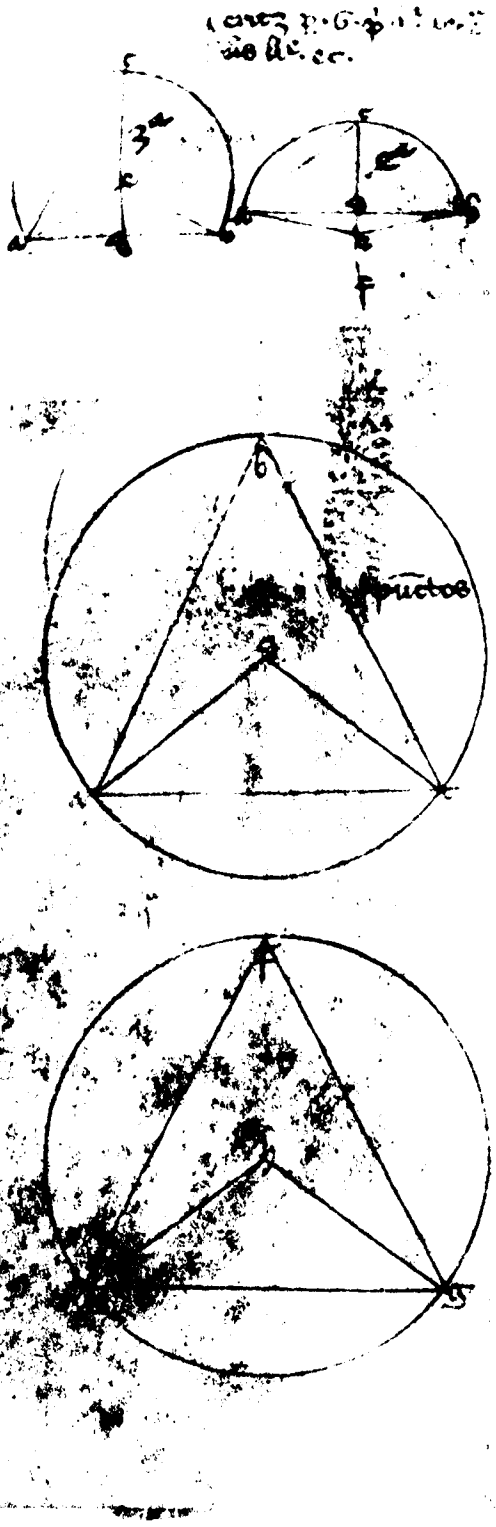
vctur equales ee uctr eſt ⁊ Sit uc me^lo a·b·c· & cu^q cent^m c· lr a·d· ⁊ b·c· ſint eq̄les
d^o q· ꝓ eque diſtāt equalr a centro ⁊ eq̄· ꝓducam^r n· ad cent^m c· h^c c·f· ⁊ c·g· ꝓ ꝑmo hb^r a·d·
⁊ b·c· cr ꝓ ꝙ am ꝓ ꝑ ⁊ h^c q· a·d· q^uiſ ꝑ eq̄lia m·f· ⁊ b·c· m·g· ꝙ· g^o duc^r tā· c· ⁊ d· c·
tan^li c·d· a· ſ^r eq̄lid duobz latlbz c· c· ⁊ c·b· tan^li c· c·b· ⁊ baſis c· a· baſi c·b· cr ꝙ· d· ꝙ angulus
·d· eq̄lis angulo c· ⁊ qz ꝺ hec lata c· d· ⁊ d·f· tan^li c·b·f· ſ^r eq̄lia duobz latlbz c·g· ⁊ c·g· cr
c· c·g· nā f·d· ⁊ equalis ·g· c· cc q· cō· a·d· xca ⁊ equalis b·c· ⁊ angulus ·d· c eq̄lis angulo
c· cr ꝙ eam ꝙ baſis c·f· equalis baſi c·g· ⁊ ꝙ iſte ſ^r ꝑmanebūt ꝺ ⁊ ab a centr^o ꝙ
ꝙ diſſinēz cab equalr diſtare a centro ⁊ hec ꝺ quadrati n·c·d· ꝙ remoti ꝙ b· ſimiles ſūt
h^r c·f· ⁊ f·d· ⁊ quadrati c·c· ſtrata diam^r a^l ad ſ^r c·g· ⁊ c·g· ⁊ ꝛz quadrati c·c· c eq̄lis
quadrato c·d· c· ⁊ quadrati f·d· quadrato ·g· c· cr ꝙ ad ſ^r ſ· f· eq̄lis quadrato c·g· ſ^r c·f·
cſt equalr c·g· ſ^r ꝙ ab ·f· c·g· cſt equalis c·g· ⁊ cab equalr diſtare a centro ⁊ c
ꝙ· a·d· cſt eq̄lis b·c· ⁊ equadrat· n·d· hui^s lineis c·d· c· equalis ſ^r ꝙ ſ^r ſ· c·
ſtāt c·f· ⁊ c·g· equalis rem^a ꝙ penulcima ꝙ quadrata eaꝝ ſ^r f·d· ⁊ g· c·d· ꝙ ſ^r ſtāt
nocē ⁊ c equalia ꝙ· f·d· c eq̄lis b·c· g· duplū f·d· ⁊ ꝙ· ſ· c eq̄lis duplo g· c· ad ꝙ· b·c·

I Intra circulū plurime rectē cadūt dya^r c^a omiū c^r longissima
cet ꝙ quinquor ꝙbus remotor^z longior ee uctr eſt ⁊ Sit uc me^lo a·b·c· d· ac
c^m cſt· c· cadāt ꝙ· me^lo ac ſint· a·b· a·c· ⁊ a·e· d· f· g· ⁊ h· u· ſint ·k·c·d· dya^r d· ꝙ· ſint
⁊ ab tanto maior ꝙ to ꝙ ꝙ· ducant^r a cent^o c· lr ad ꝙ^m ꝙ omiū a ſ^r c·d· c· e· c·f· c·
g· c·b· erunt ꝙ· ſ^r ꝙ· duc^r lata c·f· ⁊ c·g· tan^li c·f·g· longior ·f·g· ⁊ qz uc eq̄lis ſ^r c·f·
cr a·d· maior ·f·g· cab ra^c maior cr ꝙ· a·c· qz a·c· ⁊ c·e· ſ^r maior a·e· ⁊ c·e· ſ^r
·a·d· maior ⁊ a·c· ſic ꝙ maior ⁊ ꝙ· h·b· ⁊ maior ꝙ· a·b· q· a·f·g· ſ^r maior ·a·b· ⁊
·c· ⁊ a·b· ꝙ ꝙ· ⁊ ꝙ duc^r lata f·c· ⁊ c·g· tan^li c·f·g· ſ^r equalia duobz latlbz
tang^li h·c· ⁊ angulis ·f·c·g· maior ang^lo h·c· cr baſis ·f·g· maior baſi h·b· Similr ſz
qua a·c· ⁊ c·c· ſ^r equalia a·c· ⁊ c·b· ⁊ angulus a·c· c· maior ang^lo a·c·b· cr a·c· baſis
maior a·b· baſi ac quor ꝙ cō· q causſe

I ab altero extremoꝝ dyc^r cuiuſlz circuli ſecta orthogonalr ducat ca cō cr^li cadē uctr
eſt, atz uc illam ⁊ eandē aliam ſecari cui^r eſt tangēs· Angulum a· ab illa ⁊
circūferētia contentū omi angulor acutor acutiſſimū· Angulū uo ꝙtinentē adhuc
⁊ circūferētia contentus omi angulor acutor ꝙbuſſimus· Vnde ⁊ manifm^m ē omes linias
rectas a cō cuiuſlz cir^li dyc^r orthogonalr ductas circulū ꝙmi cōtingere ⁊ Sit uc me^lo a·b· dya^r
·a·c· cr^li a·b·c· cuiꝰ cent^m ·d· ducat^r ꝺ ortho^r d^o q· ꝙ cadz ex^r circuli ⁊ q· me^lo ſit ⁊ cōtinēs ꝺ
ſit· a·d· ortho^r ſup·a·c· ꝙ cadē me^lo circuli ſ^r illa ſit· d·b· ⁊ duca^r ·d·b· cr ꝙ ꝙ am ꝙ angulus ·d·a·b·
equalis angulo ·d·b·a· ⁊ qz angulus ·dab· ⁊ cō ꝙ ypothes hab^r cam lus ·a·d·b· duob^z ꝺ^o ꝙ
ꝺ ꝙ ⁊ ꝙ· ꝙ· ꝙ· cadz ·g· ex^o ſit· a·c· ⁊ q· ſ^r me ꝙ am ·a·c· ⁊ cōtinēs ꝙ· ſ^r ꝙ· ſit illa
·a·f· ad q^am ꝙ ducat^r ·d·g· ⁊ qz angulus ·d·g· a· ⁊ cō ꝙ· ·d·b· ſit ·a·d· io maior ⁊ ·d·g· ad ſ^r ꝙ
dr me ꝙ am ⁊ cōtinēs nulli lī^e ꝙ me^lo ⁊ ꝙ· ꝙ· ⁊ ꝙ angulus cōtent ab ca· ⁊ cōtinēs qui d^r
angulus cōtingens ⁊ maior ꝙ angulo ꝙtento ab eadē· ⁊ rectā b·n· aliquis rectus angulus eſt
maior angulo cōtingēs ꝺ ei cāles q· oīb· tales poſſe ducī ⁊ equi ꝙ ſ^r ꝺctinā· q· ꝙ me^lis a·c· ⁊ cōtinēs
poſſ hanc ꝙ me^lo ꝙ· monſtrandū· ſ^r no poſſe ꝙ ab ꝺ^o ſ^r angulo ꝙtento ab eadē ⁊ cōtinēs
oīm acutor rectil^r ē maiore ar no ducī ꝙ· ꝙ· n· angulo rectilineo ꝙ· no ſ^r ꝙ· ꝙ· ꝙ· ꝙ·
ꝙ· ⁊ Correm^r quor ꝙ· ꝙ· ꝙ· ꝙ· ꝙ· n· h^a a·c· ꝙ· ꝙ· ꝙ· ꝙ


f
b
f
f
b
20
23



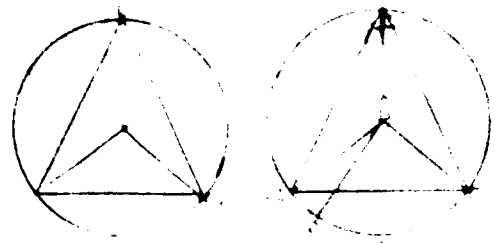


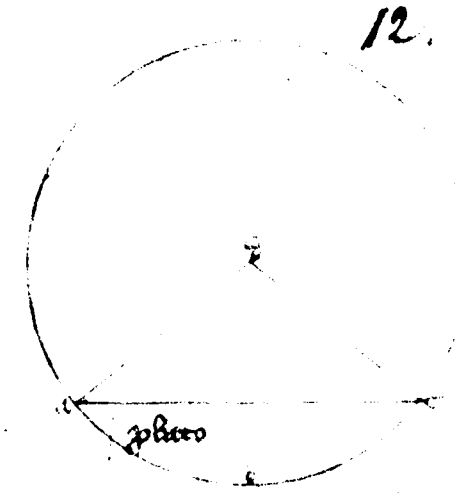
1 Circulos similes portiones sup̃ lias equas fiunt vtrius portionis eãs circuli est

ati semicli siue semicli maioris portio cãli ysce

1 In equis circulis equalium arcuum recte subtendentes equales sunt

1 In equis circulis equalium arcuum illos tadentes angli qui sup̃ circũferẽcias constituũt equos

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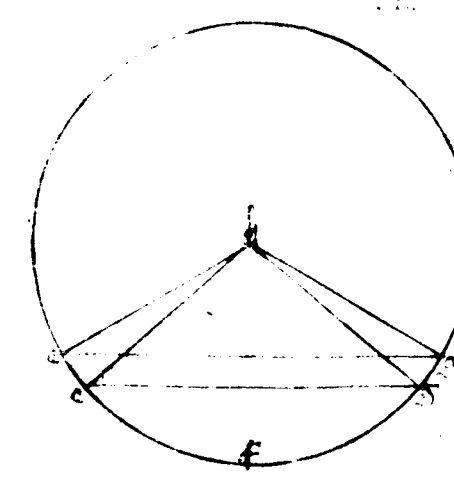
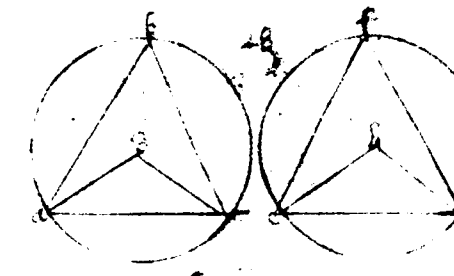
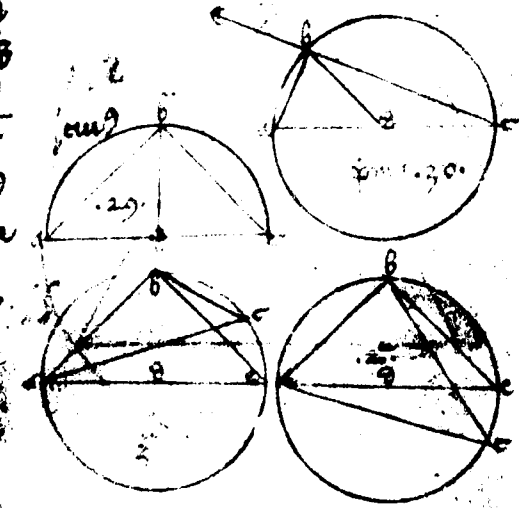
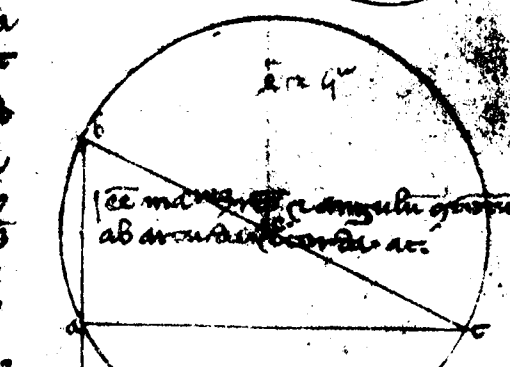
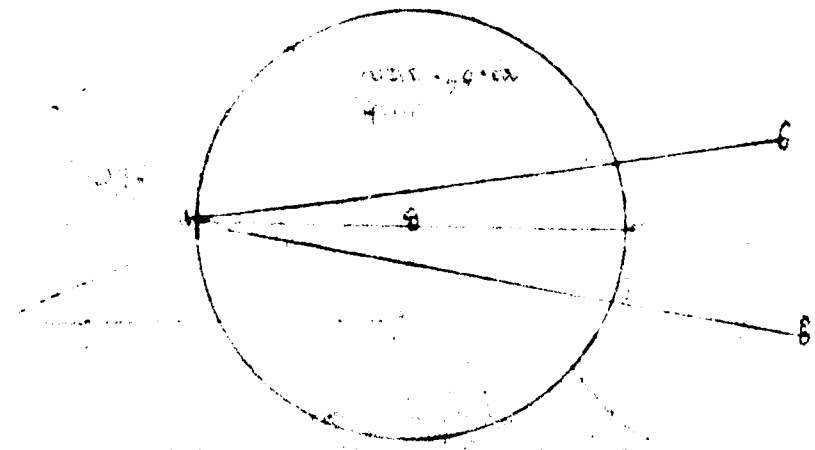
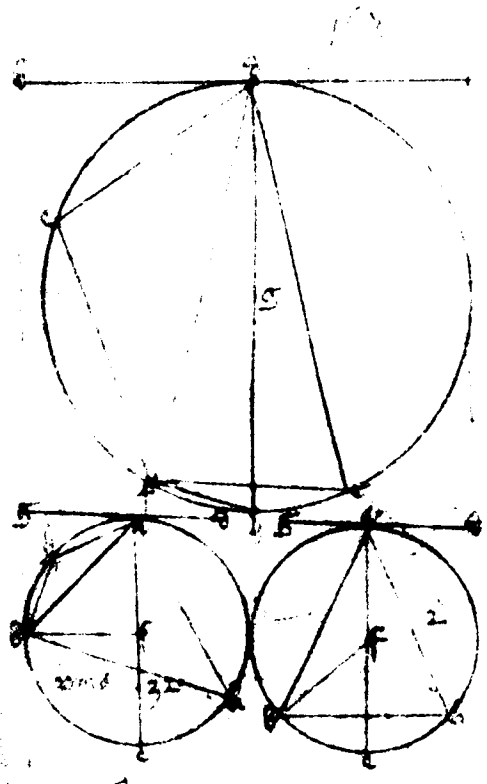


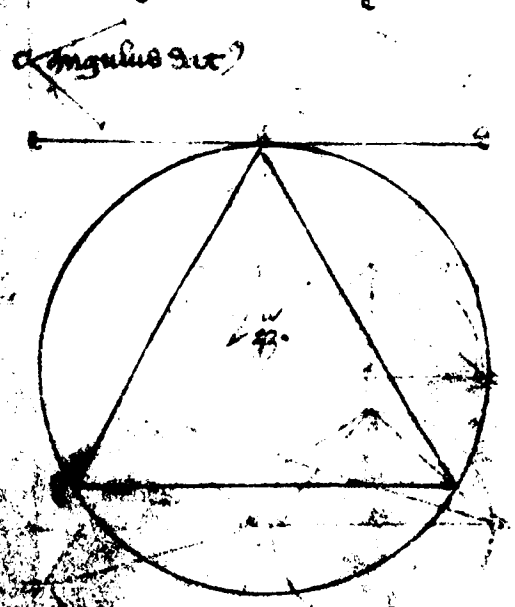


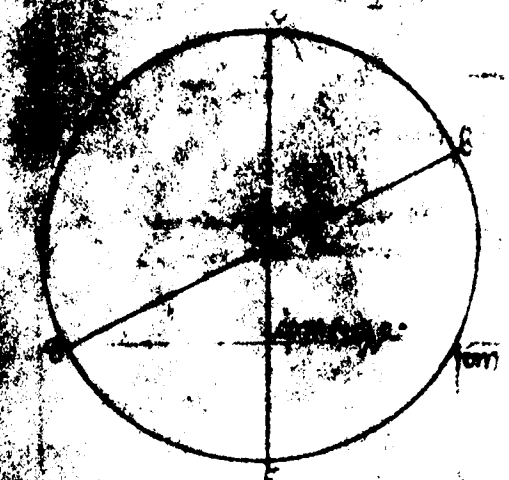


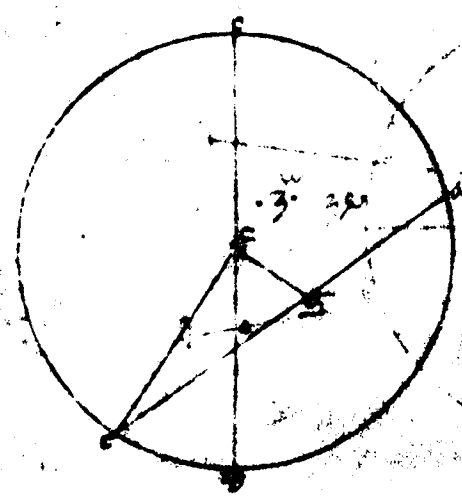


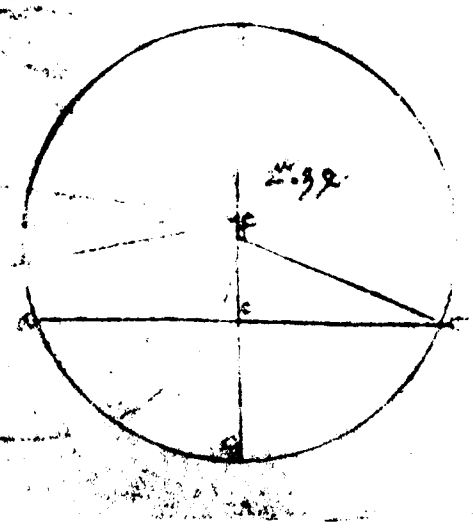


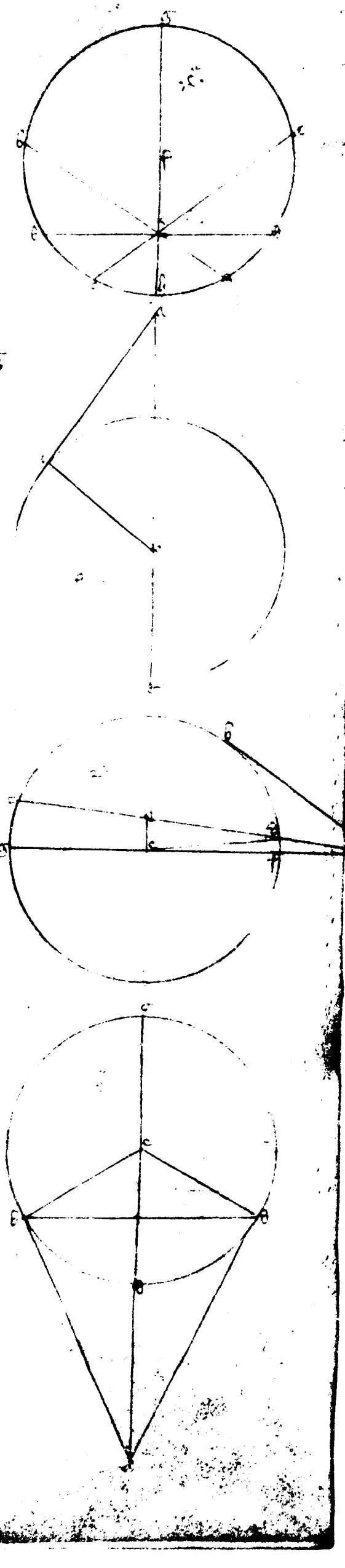






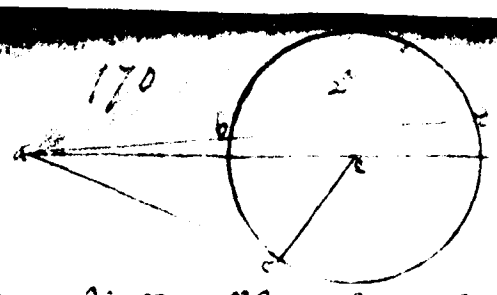






I cotra circulū puct⁹ signetur ab eo ad circulum alia secās alia cotingēs
due sic reducantur q̄ sub cō secante, arc pte sui cotrin⁹ contine⁹ equi ℓ
ql quadrato q̄d ex cotingente sui describitur. Sit a. punctus signatus ex ℓ
-b·c·d· ex cen^m e. ad q̄ ducant^r due lē a·b· cotingēs ℓ a·d·c· secans d^o q̄ ro q̄d fit ex·a·c· m
·d·a· cal^r 7 quadrato lē a·b· sit ·n·i·d· cōstet p cen^m a nō cōstet 5^o p cen^m p q̄d q·c· ℓ duc^r
lā·c·b· huic p̄pēdicul^r equ^r sup hāz a·b· ℓ q̄ lā·d·c· dupla 7 p̄ equalia in p̄cto c· ℓ ei adiuc
ea est lā·d·i· et p·c· ℓ q̄d fit ex·c·i· m·a·d· q̄drato lē·c·b· ℓ ro q̄drato lē·c·b· cāli
quadrato lē·c·i· ℓ ro p penulā p̄ equale quadrat^o duar^m lin^r·c·b· ℓ·b·a· q̄p id q· angulus·b·
est rō q̄mpto ex bin^z quadrato·c·b· et q̄d fit ex·c·a· m·a·d· cāli quadrato lē·a·b· q̄d 7 ppm
Sit lā·i·c· nō cōstet p cen^m sūma^r·a·f·c·g· cōstōs q̄ cen^m ℓ ducan^r lē·b· accentro
c· ad·d· p̄metru a^d p^o·i·c· secat cir^m·c·d·c·ℓ·d·h· q̄ cen^s ad d·c· et q̄z p quāl^r g·d·h· cā
ad·c·c· ex ro lā·d·c· est duct^a p equalia m̄ p̄metro·h· ℓ addita est b^o·i·d· lā et p·c· i q̄d
fit ex·c·i· m·a·d· q quadrato·f·h· equale quadrato lē·a·h· ex addito utriq; quadrato·h·
·c· et q̄d fit ex·c·a· m·a·d· q quadrat^a duar^m lin^r·d·h· ℓ·h·c· ℓ ro p penulā p q quadrato·d·
·c· q̄p id q· angulus·h· est rō ℓ ro quadrato·c·f· q̄p id q·d·c· ℓ·c·f· sūt equales p diffīe ēq
equale quadrato duar^m lin^r·a·h· ℓ·h·c· ℓ ro p penulā p quadrato lē·a·c· sic p·c· i q̄d fit ex·c·
·a· m·a·f· q quadrato·f·c· est equale quadrato lē·a·c· ipa enim inter se equalia 7 ex p̄cto ex d^o en=
quadrato lē·c·f· et q̄d fit ex·c·i· m·a·d· equale ei q̄d fit ex·c·a· m·a·f· si id q̄d fit ex·c·a· m
·a·f· est cāle quadrato lē·i·b· q̄d 7 ppm Dico nō q̄ punctō ex circuli signato sub ipo ad circuli q
lā lic secantes ducentur triāgla que a cēm^z sub cotis ℓ cui^s pportionē cōtinēt ad inbice sit cāla
q̄m omia sit cāla quadrato lic contingentis nō 7 q̄ si aliq̄ punctō ex circuli signato ducāt^r q
cantes ipm ducam^z ipe eārum ad inbice equales erūt n·quadrate dēnsi cui^s equale ei q̄d fit ex pla sub ea
te ad ipo p̄metro ducta m circuli m p̄te eius exēta nō 7 cludentes p̄ p penulā p̄, sit·a· puc
tus signatus ex circuli·b·c·d· ex cen^m·e· ℓ ad ipo ducam^r due lē·a·b·ℓ·i·b· contingentes circuli
m puctis·b·d·go ipis ex cāles p ducta·n·lis·e·a·e·b·e·d·e· et q̄z p·a· linea uel maiorē·b·ℓ
·e· rō ·n· p penulā m̄ p quadrato·a·e· est cāle quadrato quadratis duar^m lin^r·a·b·ℓ·b·e· simili
ℓ ducte duar^m lin^r·i·d·ℓ·d·e· ℓ p quadrata duar^m que sūt·b·e·ℓ·d·e· sūt cāles ipis dēnsis e
rūt ℓ ipm accepte quadratū que sūt·i·b·ℓ·i·d· equalia sūt·i·b· est cāle·i·d· q̄d 7 ppm Aliter
sūt lā·i·b·d· et p·c· p̄ angulus·e·b·d· cāle angulo·e·b·d· q̄p id q· lā·e·b· est equalis lē
·e·d· ℓ q̄z b^e ducte angulor^m b·ℓ·d· est rō et p omnes tm angulus·a·b·d· residuus e
qualis angulo·a·b·e· residuo sūt p·c· p lā·i·b· est equalis lē·i·d·

I fuerit punct⁹ ex circulo aliquo due lineē ad cōsentia ducant^r alia secās
altera cotingēs applicata fuit ℓ q̄d ex ductu totius secantis in p̄tē sui
extrinsecā equāli ei q̄d ex ductu tot⁹ applicate in seipsam fit erit lā applicata
recto circulum contingens. Sit·a· punctus assignatus ex circuli·b·c·d· ex cen^m·e·
aliq̄ ducāt^r ad circuli lā·i·b·d· sit ipm ℓ ei·i·c· applicata cōsentiēs ℓ esto ut q̄d fit ex·d·a· m
·i·d· sit equale quadrato·i·c· cui ipe·i·c· ex contingente ℓ hec 7 q̄dā pars, si·n· nō sit ℓ



qr quadr· c d· ef·

gens sit a·f· et qz p ꝑmissam qd fit ep·d·l· m· a·b· eqle quadrato lie a·f· et eqle gnato lie a·c· 5· a·c· est equalis a·f· qd z mple p·q· huic et 5· a·c· pomgeb qd z ppon· ꝑbitur· manet por bipo z ꝓpoſ· ſ lie a·b· tnſſe p cent^m duc lie a·c· et p penu qd fit ep·d·a·m·a·b· q quadrato c·b· z 10 q quadrato c·c· eqle quadrato a·c· ſ qd fit ep·d·a·m· a·b· qd sim est equale quadrato a·c· 5· quadratum c·c· q quadrato c·b· est equali quadrato a·b· 5· p penultam p· minus c·b· est tm 5· p xiie Nūg· h) ūl a·c· est contingens circulū qd z ppon· ſ a·a·b·d· no tnſſe p cent^m ducta aptincto a·b· tnſſiens p cent^m z pz qd fit ep hec tota m cub ꝑ ꝑmiſſa est eqle ei qd ep·d·l· m· a·b· p ꝑmiſſ· ipm et c· eqle quadrato lie a·c· p ut ꝑbus a·c· et contingens circulū

Figura mīe figura inſcribi dicit qn cag inſcribit ei^s unqua ſt̄ bitur tacta vnaq uoz ſuoz angulo^z ab unitore ꝑte cotingit· Circ ſcribi v̄ figure figura ꝓhibetur quotiens ea q̄ndem figure que inſcribitur ſuis omibz lateribz omes angulos contingit utriusl circulum datelic tm que data^z im^me maior qo exiſtat eq̄ratam coaptare liaz Sit lia data a·b· circulus qz dat· c·d·e· cui^z dyames c·d· quo no z maior lia a·b· volo mota circuli dat coaptare lie eqle a·b· que ſ fiat eqlis date^z q stat ꝓpo^m ſ a·minor ep date^z sumat d·f· b eqlis z ſuppmetu d·f· fiat lie d·f· describatur circulus f·c·g· secans datu circulu m ꝑnctis g· z c· ad abdē quo ducta lia ꝓmeto d·ut d·c· t d·g· c· et qz b z eaſ cus lie a·b· eq q ūz z eqlis lie d·f· ꝓdisse ei qd ha^m

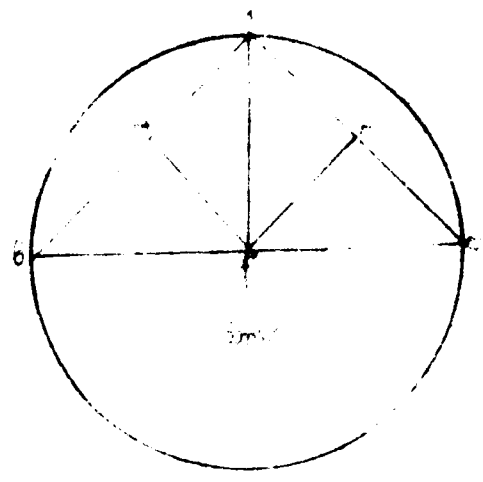
Ntra assignatu circulū tāgulū assig^to tāq̄ eqlāgulo collocare ꝓpositū Sit assignatus tangulus a·b·c· assignatus qz circulus d·e·f· volo me hmoi circuli circulū equiangulū tanto a·b·c· equilatero n· no e ntem z polc ꝓduco g·d·h· ꝑmoscet circuli m ꝑncto d· ſup q̄ fa^z angulū h·d·f· ductalia d·f· equalē anglo c· z angulū g·d·e· ductalia a·b·c· eqlē angulo b· z ꝓpheticas c·f· et qz ꝓ z^u angulus c· equalis angulo c· qz ut equalis angulo h·d·f· c· quod ꝓpositum c· u^o ꝓ z^u z^u cui^d rone et angulus f· eqlis angulo b· ꝑ ꝓ z· z· ꝓ d· z^u et equalis a·z^o qd z ppon

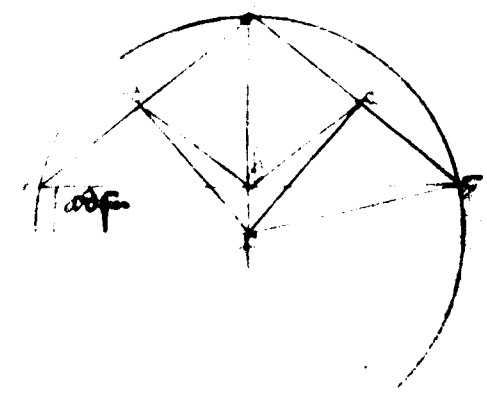
Ntra assignatu circulū assignato tangulo eqliangulū collocare Sit ut ꝓpositus assignatus tanlus a·b·c· assignatus qz circulus d·e·f· cui^z centm g· et hmoi circuli volo describi vnu tangulū equiangulū tanlo a·b·c· equilatero n· no e ntem z polc· ꝓduca d·f· b·c· m bet^z ꝓncta ut fiat angulus duo ep^os z iconi g· ꝓduca lia^z g·d· ad eqſen^az z g·f· tuam angulus d·g·c· ducta lia g·c· equalē angulo b· ep^o z ꝓpmetus d·e·f· ꝓduca mu tuas ꝓncta^s ortho que ꝑ contingit z^u erunt gemocentes circuli quas gemocentes ꝓtis que gen^rat m ꝑncto h· ita^s ncte n· z tas gene q·n· ut^z angulos qui st ad c· z ut^z cor· qui st ad d· ſt tas ſ maiores ꝓtis a·d·c· erunt duo anguli qui st ad ꝓncta h· mi^res duob^z tab^s ꝑ penulaz ꝓtis m ꝑncto ꝓtis ꝓtracte gene lie l·d·h· z·k·c·h· eadē rone gene ducte k·h·d·l· z k·f·l· quoz angulos qui st ad f· ſt equales tas ꝑ 5^o m quadrilatero h·d·e·g· duo anguli d· z e· ſt tas erunt duo anguli g· z h· equales duob^z tab^s cui^s quadrilatero quatuor anguli ſt equales quatuor tab^s ut monſtratū z 8^m m 32 p z ꝑ duo anguli b· mōſtratus z ep^os tus ſt equales duob^z tab^s ꝑ 23· p· arcui b· ep^o m^o posteus est eqlis g· et mōſtratus h·b· eqlis h· ſt quoz rane et c· mōſtratus eqlis l· z q· duo anguli b· z c· mōſtrata ſt mores duob^z tab^s ꝑ 32· p erunt ſmlr duo anguli h· z l· mores duob^z tab^s qr ꝑ penultimā ꝓtis ducte k·h· z k·l·f· ꝓtracte gen^rat m ꝑncto k· fiet ꝑ tantus h·k·l· z q· anguli h· t eqlis angulo b· mōs z angulus l· gulo c· mōs et ꝑ 32 p angulus k· eqlis angulo a· qr habet ꝓpon

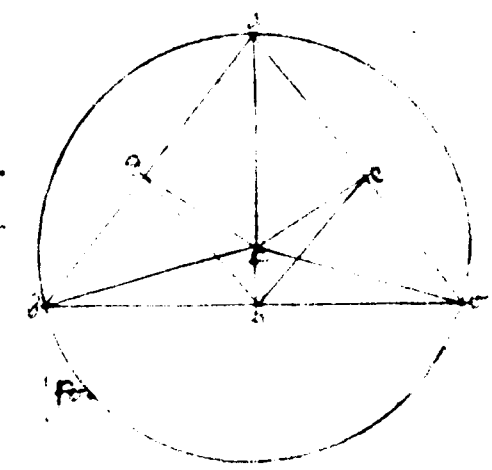
Ntra datu triangulū circulum describe Sit assignatus tangulus a·b·c· volo me ipm circulū describi hic z; qua^z 2^e· quod eius duos angulos a·b· ꝑ equalia a· quib ducta lia^z a·b· quoz ducta lia^z b·d· que gen^rat m ꝑncto d· a quo ducta ꝓtis ad ea latera ipi g·d·e· quod ad i·b·g·f· id b·c· z d· g· id i·c· z qui duoz t angulor c·a·b· z g· i·b· angulus i·b m est eqlis angulo a· ideus z bz angulor c· z g· est tas z latus a·b· qe et ꝑ 26· p hui^s g·c· equalis lie d· g· cui^z rane quoz t angulor c·b·d· z f·b·d· angulus b· b mus ſt eqlis an gulo b· ideus z bz angulor c· z f· est tas latus quoz d·b· est qe erit ꝑ cmd hui^s c·d· eqlis lie d·f· ſt z lie d·c· d·f·d·g· ſt equales posteo g centrum d· z d describo circulū ſ ipi^s tis b m^o c· m ostendit ꝑ q· 3^m ꝑ reliquam dicat ep^os tres z ac ꝑ contin· q· 3^m quod ꝓpositum erit gemocentes circuli qz ꝓpositum fe ꝓpon

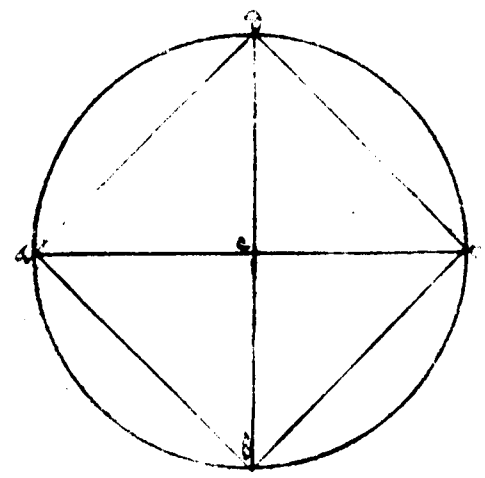
Ntra trigonū ſiue trilligonū ſiue oxigonū circulum describe Sit

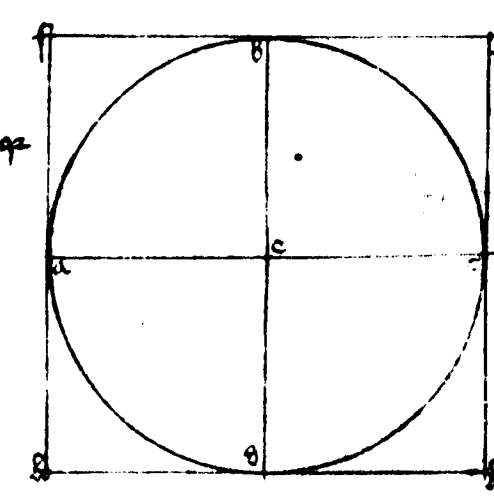
assignatum ſiue illud ſit o· tangulum

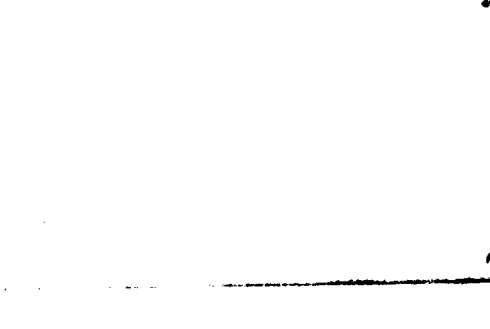


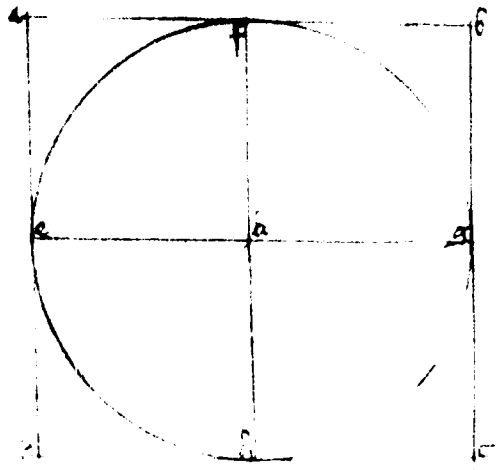


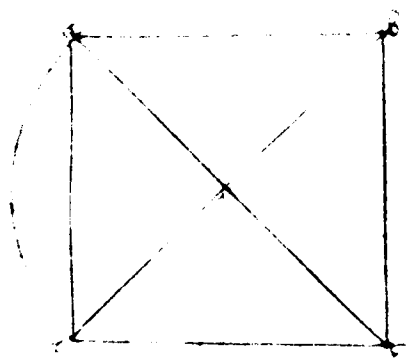


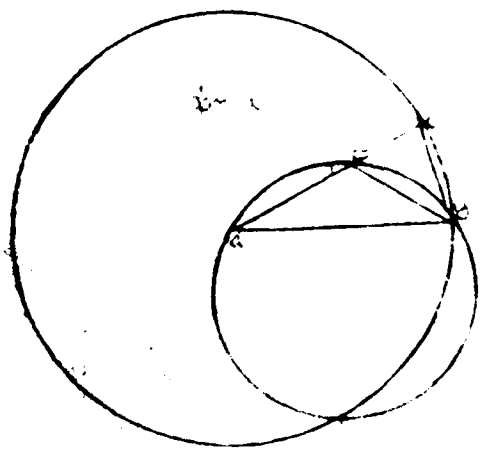


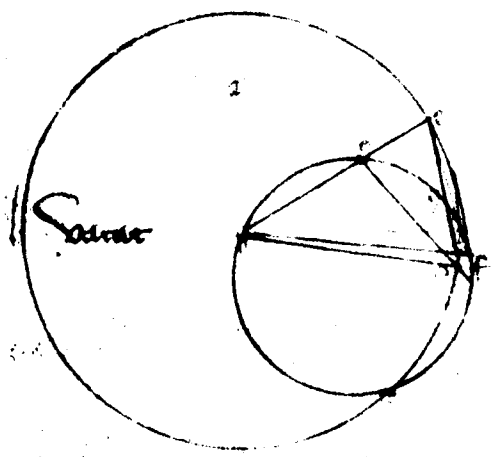


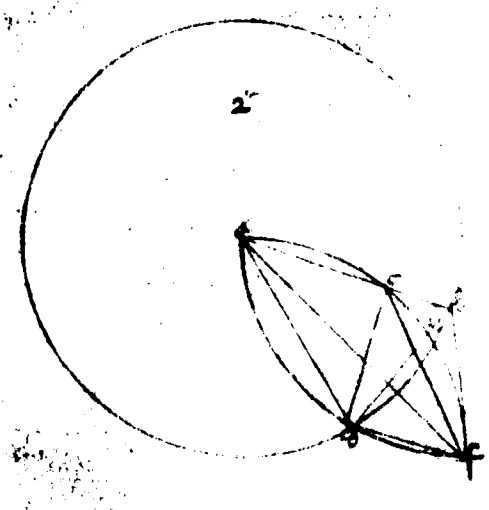












·f· g· b·h· est quadratorum p differe qd z ppm

ntm quadratu assignatum circulu describe

Sit quadratu assignatum a·b·c·d· uolo mora rpm describe circulu huc z sit quida cui quado cuiuscuz circuli latus p est a·d· quod m puncto c 1·b· m puncto f· c·b· m puncto g· d·c· m puncto h· z p duo puncta b·c· g· z f·h· secantes se m puncto k· que dico esse centm circuli cui· n·f·h· equedistans z equalis a·d· p·zz· p qd si d g· a·f· z d·h· sut equales z equedistantes similr z p eandem c g· z b·a· q2 omes mediatrices g·k· latus k latus rpi quadrati sut ambite equales p·zz· p quatuor hec·k·c·k·f·k·g·k·h· erunt equales g· p·g· z u k z centm cui quesita

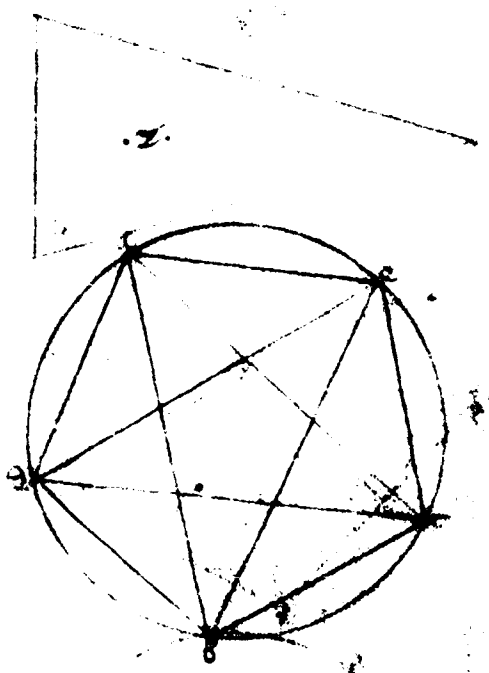
uta quadratu assignatu circulu describe

Sit quadratu assignatu a·b·c·d uolo circa rpm circulu describe hec z quida qm cpho m rpo duas dyas a·c·b·d· secantes se m puncto e· cui dico e centru circuli q· n· huc a·d·z a·b· sut equales erunt p q· p anguli a·d·b· z a·b·d· equales z q2 anguli a· rectus est rectus p·zz· p uez cum e centru sit quoz m probabit quelz p ualtu angulorum adductis dyametris z lateribz rpi quadrati circa centrum e mediet rectos q2 g· angulus c·a·d· est equalis angulo c·d·a· et p·b· p hoc a·c· equalis huic c·e·b· eadem ratione et c·a· equalis c·b· z c·e· q2 quia q· huic c·a· c·b· e·c· z d· sut equales et p·g· z u· c· centm circuli quesita

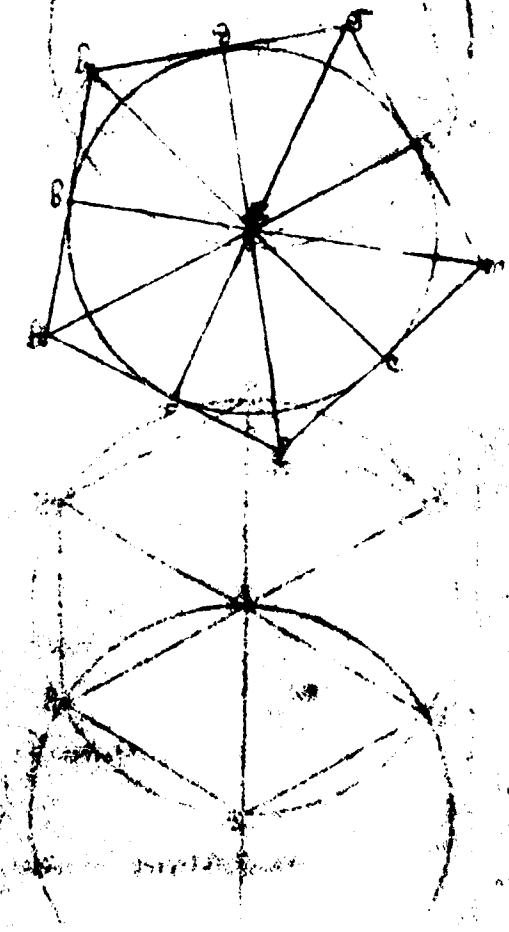
uum equaliu laduz tanguli designare cui uez duoz angulo qs ba sis optatet reliquo duplus existat

Hec nra sua est describe unu triangulum unu equaliu laduz z u· in equalis cuius uez angulorum unus rpi latus qd z reliquus multiple existet ad m duplus existat Ad hoc faciendu sumat linea quelz que sit a·b· z duplet q· qd uolz m· z m puncto c· tangat qd sit ep·a·b· m·b·c· sit equale quadrato a·c· fiat q2 centro a· centoro rpi huius circuli describatur circulus d·c·b· nre p p primu huius coaptet linea b·d· equalis a·c· z producat huc hic d·a·d·c·ye et ygnm a·b·d· ce equalis oppm· dyameter p·q· huius tanguli d·b·c· a· circulus qui sit d·c·a· q2 g· linea d·b· est equalis huic a·c· et qd sit ep·a·b· m·b·c· equale quadrato hic b·d· qr p oblatum a z u· linea b·d· z centroq circuli d·c·a· z p·zz· cuius a·c·d·b· est equalis angulo c·a·d· rectus q· angulus c·d·a· est equalis angulo c·d·b· z q2 g· angulus c·a·d· z c·d·a· sut equales duobz angulis c·a·d· z c·d·b· a· z p·zz· p angulus b·c·d· est equalis ei qd expetit ad rpos g· angulus b·d·a· est equalis angulo b·c·d· z q2 angulus a·d·b· est equalis ei· a·b·d· q2 am p eoq latera a·d· z a·b· sut equalia et angulus b·c·d· equalis angulo c·d·b· g· p·c· p hoc c·d· est equalis hic b·d· quare hic c·a· g· q2 p angulus c·a·d· c equalis angulo c·d·a· q2 g· uez angulorum c·d·b· z c·d·a· est equalis angulo c·a·d· et cum angulus b·d·a· z rectus angulus a·b·d· equalis duobz angulis a·b·d· z c·a·d· cui est equalis angulus d·b·a· ad ipsum circulum describatur circulus d·c·a· cognito igno quomodo circulus b·d·c· in aliquo puncto ut c·d· recta q sumat secabit hanc a·b·d· ut rpi no et circulo applicata secet ut non prolongetur sup rpm secans sit rpm secans sit g· p·le est ut pducte ad ipsum circulum et a puncto b· ducat ad rpm circulum m· et connectens b·f· z ducatur hic f·a·f·d· cui p pueniat z u qd fiat ep·a·b· m·b·c·c equale quadrato c·f· g· b·f· est equalis b·d· ar p quam z angulus b·f·d· est equalis angulo b·d·f· z q2 p·zz· z u angulus b·f·a· est equalis angulo a·d·f· et angulus b·d·f· maior angulo a·d·f· qd z impossibile quare sit pb cuius Hic possumus ostendere qd maior circulus non secabit hanc b·d· forte m· n· quod q secata cum non secundo ut m· d·b· maiorem circulu s· n· possez q secta cum sit in puncto h· et qd fiat ep·a·b· m·b·c· equale quadrato qd fiat ep·a·b· m·b·h· substrahe n· z sup pueniat ma z u qd sit ad aliquo puncto ep circuli signato quez lez secantes ad circulu ducant q· sut tot z cum portiombz ep intersectas gemetrum sit equalia ad mbos et q· qd fiat ep·a·b· m·b·c·c equale quadrato·b·d· et qd fiat ep·d·b·m·b·h· equale quadrato·d·b· qr quadratum b·b· est equale ei qd fiat ep·d·b· m·b·h· qd z ipso p ram z qr qdratu ppm Et no q· maior circulus non secabit maiore z abscindet ab eo arcum sui eidem arcu·d·b· z maior abscindet similr ab eo sui arcui equale arcu·d·c· qd sit probatum si n· maior no secabit maiore cognita q rpm m· puncto d· ipso n· z u circulorum secet gemetrum z centr z punctu gratuitus sit m hec una cum maior circulu et minor a·b· qd ipo g· m ei est centm maior z punctu gratuitu g· p·m· z u angulus a·b·d z rectus similr angulus a·b·d· g· equalis est equalis angulo a·b·d· et minor circulus a·b· z rectus angulus a·b·d· p·zz· p hoc g· cum rpm m puncto c·f· d· arcum c·d· maioris est equale arcui a·d·b· z arcu c·e· minor est equale arcui a·d·b· z d· arcus a·d· c·c· c·a· est p·zc· z u sui q· angulus a·d·c· q· sit a·d·c· c·c·a· b·a·c· equalis ab· d·c

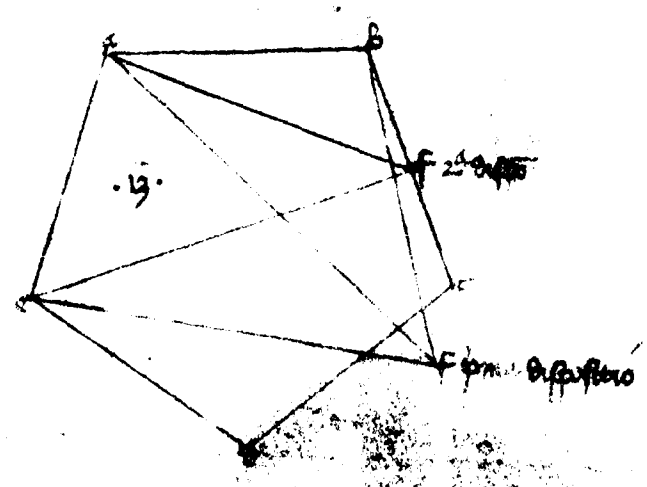
.x.

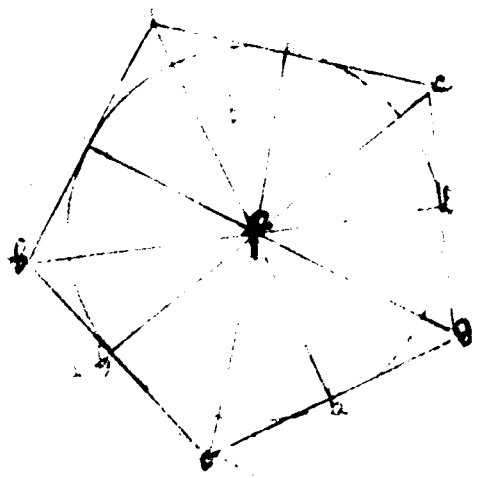


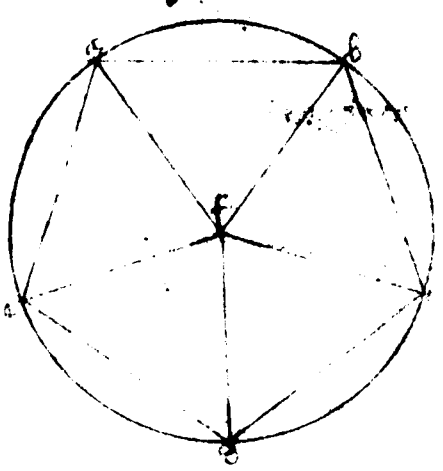
Pentagonu

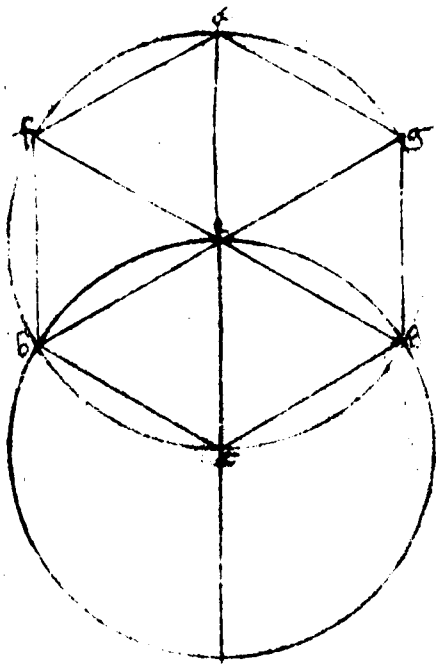


.13.



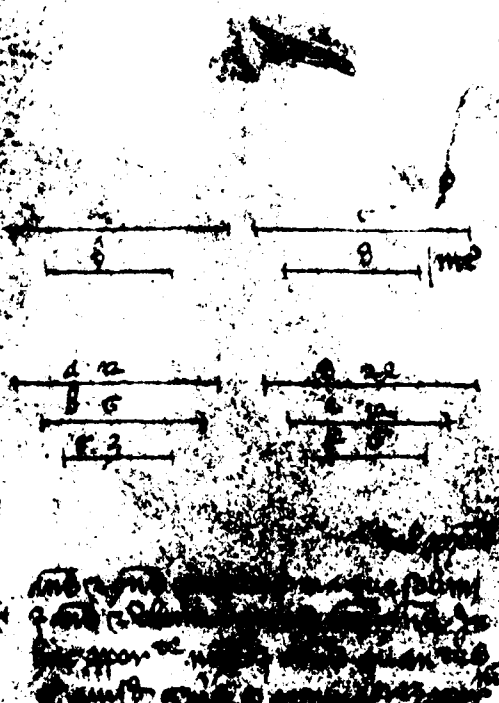






Qtra datum circulum quindecagonu equilaterum atz equiangulu designare. Deinde et qlz circuli assignati quindecagonu equilatu atz equiangulu atz inter datu quindecagon circulum describe

Sit datus circulus a·b·c. Volo ꝫ mihi describ quindecagonu equilaterum atz equiangulu. Deinde describ equilaterum atz inter tale quindecagonu possum circulu describi. Non apparet ad hoc tale quindecagon circulu describ. Quia hoc sane datur intellige per alia que pcedut. Inscripto enim uno quindecagono. Ptholomeus tamen consulat quo ste. a·c. qui unus decima. y. circuli pcedam equilat atz equiangli. quo ste. a·b. qui arcus. a·c. est totius circuferie data et arcus. a·b. est. et sup illum me cos quo z arcus. b·c. due tde arcus. a·b. t due quinte arcus. a·c. sue due quinte decime totius circuferie. Nam si totius circuferie quadrabz tres puncti qui sit m. quadrabz vero puncti qui sit n. erit m. tertia totius circuferie. n. vero quinta. Et si m. tertia de n. quinta auferat. remanet. y. quindecima circuferie. que est tertia quinte. Et quia tertia quinte est quinta tertie. Ideo si quinta tertie auferat de tertia remanet quindecima. Quare si arcus. a·b. qui est tertia totius circuferie. diuidat in tres partes equales. et una illarum auferat de arcu. a·b. remanet arcus. b·c. qui est quinta arcus. a·b. et quinta arcus. a·c. sue quindecima totius circuferie. Si igit corda arcus. a·b. et corda arcus. b·c. sumant in circulo. erit corda arcus. a·c. latus quindecagoni equilateri et equiangli circulo inscripti. Et non solum latus quindecagoni sed omnium equilaterum et equiangulorum figurarum circulo inscriptibilium. Quia omnium talium figurarum latera per rectas lineas circulum subtendentes equalia et equalibus arcubus circuli insistunt. Quare si quotlibet talium figurarum latera in circulo describantur. Et omnes arcus circuli quos latera figurarum subtendunt bifariam secentur. Et rectarum linearum ducte sectiones arcus ipsos bifariam secantes. Erunt anguli figurarum equilaterarum et equiangulorum circulo inscriptarum equales. Quare si circulo figura equilatera et equiangula inscripta fuerit. Et arcus circuli figuram subtendentes


b
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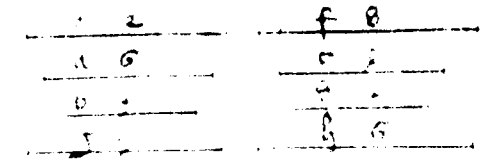
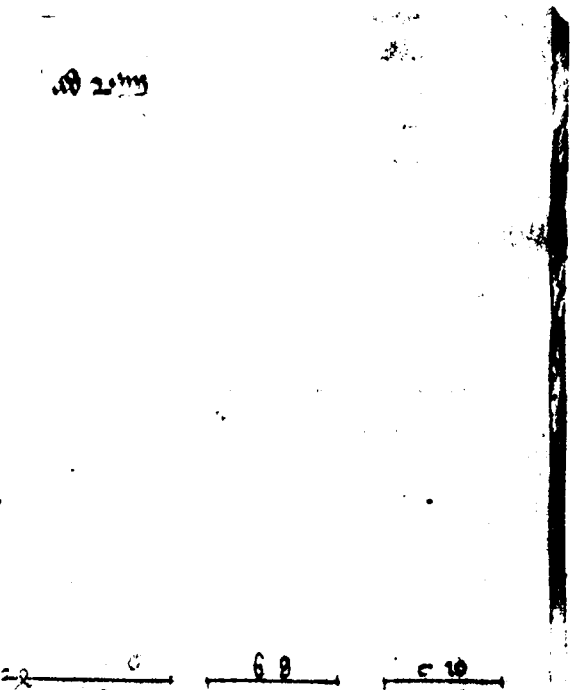
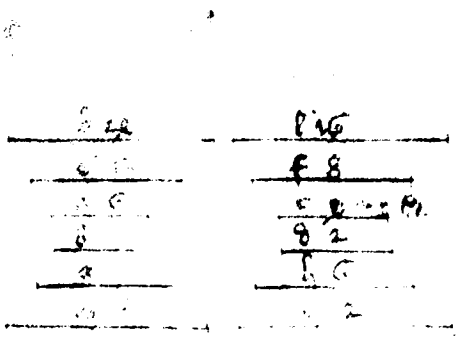


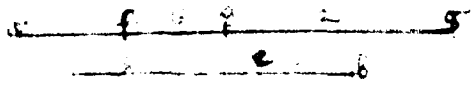
Mantices quarū ppor̄ est una porcionales nolūtur : ps̄ q̄ dissimiliū q̄tes
arū ppor̄les z mḡdē dissit q̄tes sm̄ ppor̄les z vr dissīo eo habitaē
Si fuerit ṗme z 2e equemultiplices sūt q̄ 2e z quarte equimultiplices addz
q̄ 1m ṗme sup̄ 1m 2e ita addat̄ tm 2e sup̄ 1m 4e dicet̄ ppor̄ ṗme ad
2dam maior q̄ ppor̄ 3tie ad 4am . dissitas q̄ctātēs ppor̄bz dissit q̄ctates in ppor̄les
Sunt aūt in porcionales mḡ quas z dissimiliū ppor̄ū q̄ demōstr̄ & duplicā & q̄ maior z
ppor̄ ṗme ad 2am q̄ 2e ad 4am & q̄ mor z io eius sp̄ dues ṗma ē maior est ppor̄
ṗme ad 2am q̄ 2e ad 4am & dica mor ē ppor̄tas . Secūda u̇ ē mor est ppor̄ p̄e
ad 2am q̄ 2e ad 4am z dica mor ē ppor̄tas . dissit a°cas mḡ quas est maior ppor̄
ṗme ad 2am q̄ 2e ad 4am & dica mor ē ppor̄tas dissīne & cas mḡ quas z mor ppor̄
ṗme ad 2am q̄ 2e ad 4am no posuit q̄ ꝓpā pare ep̄ua . Cum 5° sūmē ē q̄ctates ad
quas ṗme z 2am sup̄ta sūt equemultiplicia z ad 2am z 4am equemultiplicia & mlta p̄e
z 2e relicta ad nḡ com no habet se smlr mlta 3e z 4e relatis ad mḡ ē in addne dmne
z equalitate ille ē q̄ctates erūt ē ppor̄les q̄ssi ita sūt q̄ multiplex ṗme ste equale
mlti 2e mp̄ 2e ste mḡ multi 4e & q̄ mp̄ ṗme ste maius multi 2e mp̄ 2e ste & 4e mḡ
multi 4e & q̄ mp̄ ṗme sūt maius multiplex 2e z smlr mp̄ 3e multi 4e . Quare plus exēs
no q̄m ad q̄ tem excessus sit q̄m ad ppor̄ne mp̄ ṗme mp̄ 2e q̄ mp̄ 3e mp̄ 4e . & q̄ mp̄ ṗme
ste mḡ multi 2e z smlr mp̄ 3e multi 4e erit quare ppor̄ē ē mor̄ē maior ppor̄ ṗme
ad 2am q̄ 3e ad 4am . Istis ꝑ ē mod̄ oppōtas ppor̄ mor̄ p̄e ad 2am q̄ 3e ad 4am . ēpe
pla & omēs istor̄ cubentur sumūt ēp̄ multos . Nōn ē ista multas ṗme sup̄ mp̄ 2e & ita sūt
tas 2e sup̄ mp̄ 2e de qua loquitur dctō . mḡ ne reldrez hz ad istos & mod̄s ppōs
& ppōs q̄hent . Euclides istius diffīne est q̄ ptes ste multēs ut ppōnitur sūt ma
ppor̄ multas ṗme ad mp̄ 2e q̄ multas 3e ad mp̄ 4e & maior ppor̄ ṗme ad 2am q̄ 3e ad
4am . no dissit & sub hac for̄ma ꝑ cam ṗus dcam : Bñ possūt dici z addo multas 3e sup̄
mp̄ 2e & multas 3e sup̄ mp̄ 2e de qua loqr̄ in ṗmissa diffīne maiores m ppor̄tio

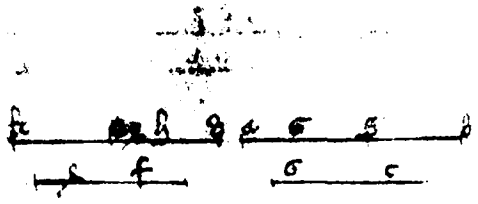
m tbz tis gsta est ca que ꝓduct ... ꝓmo ... ... semel ... ... tab ca que ꝓduca ... ... ꝓ ... ... ꝓtes multiplicat sue ut ... ...

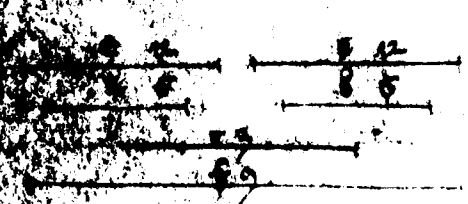
non

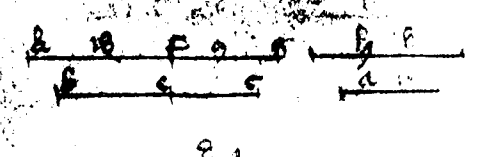

ad 2um
c
b g
c w
g 3
c g
f q
e g
a 5
b
g b











1 Si fuerint .ppc. ꝙ ad .ap. sicut .z. ad quadratum ad primū .a. et ad .z.m equimultiplicia assignentur .h. et .k. .m. et .e.m equemultiplicia equalia assignentur .h. et .k. .m. et .e.m equemultiplicia equalia assignentur erit assignatum multiplicatum .a. primum ad .b. secundum sicut .h. tertium ad .d. quartum

Sit .ppc. .a. ꝙ ad .b. .z.m sit .c. et .z.ū ad .d. .z.m sumantur quelibet equemultiplicia .e. et .f. .g. et .h. ad .b. et .d. equemultiplicia .k. et .l. .m. et .n

I fuerit aliq̃ quantitas ad vnã q̃rũ ꝓꝓr̃ vna quãs ee eq̃les ⁊ Si vnus ad eas ꝓꝓr̃ vna quãs equales ee dicẽt est ⁊

I fuerit vnitas q̃rũ ad vnam aliq̃ ꝓꝓr̃ maior q̃rte maiorẽ ee ⁊ Si illo vnus ad eam ꝓꝓr̃ maior minorem ee notũ est ⁊

I fuerit q̃rũ ꝓꝓr̃nes ad vnã eq̃les quas ꝓꝓr̃nes ꝑ mdiũ eq̃les ee notũ est ⁊

I fuerit ꝓꝓr̃ p̃ ad 2m sicut ꝓꝓr̃ 3us ad 4m 3us p̃ ad 4m maior q̃ p̃ ad 6m erit ꝓꝓr̃ p̃ ad 2m maior q̃ ꝓꝓr̃ p̃ ad 6m ⁊

Si fuerint quotcunq; ad totidē a^os ppor^o vna q; erit ppor^o vnica ad vnā

eandem erit hec oīa ppo^o ad oēs illas ppo^o accepto

Si fuerint quotcunq; ppor^es ppor^es sint vt vna maior ad vnā

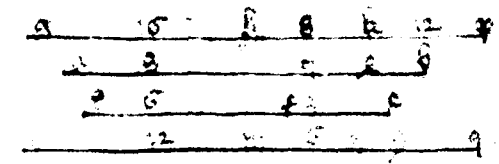
minorem ita et maior ad minorem

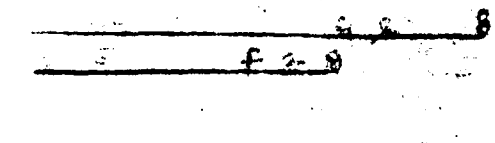
Si fuerint aliquot ppor^es equales vna earū ad vnā

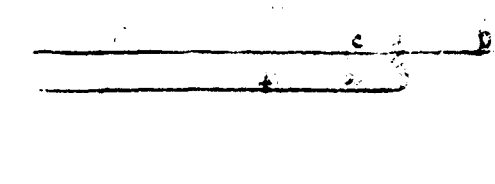
multiplicium vna ppor^o

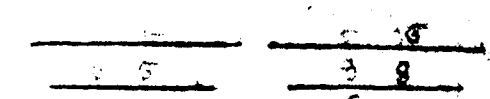
Si fuerint quotcunq; ppor^es ppor^es. vnitum quot ppor^es erunt

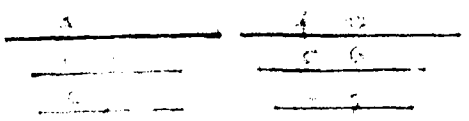
Si fuerint quotcunq; ppor^es collectum ppor^es eisdem vnitis ppor^es

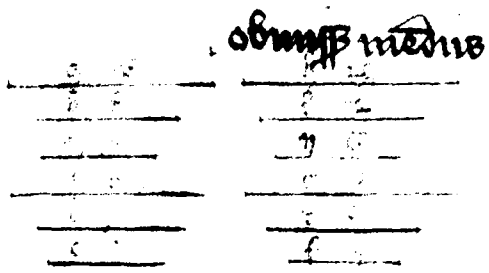


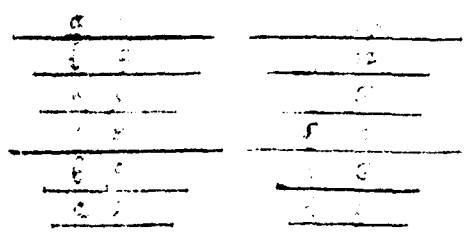


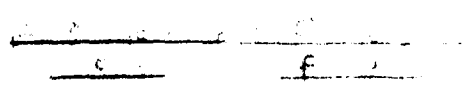






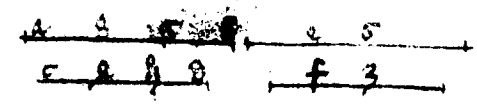




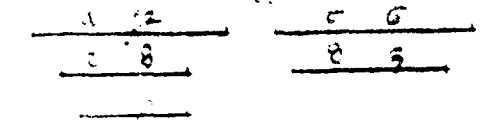


ab·c·q·ir ꝙ·22· et m eq̃ ꝓpor⁹ a·b· ad·b·5· sicut·d·e·ad·h·c· 3° ſnilr m ꝙ·18· a·5· ad ·5·b· sicut·d·h·ab·g·c· ita ꝙ·12· et m equd ꝓpor⁹ a·5· ad·c· sicut·d·h·ab·g· q̃ꝫ ꝓpoꝫ

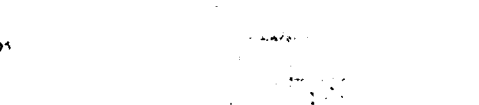
1 ſiunt q̃or quantꝫ ꝓportiones ſint̃ ꝓma cat̃ aquia et ultima mi maq̃ et ultima vires acceptas certis duabꝫ manus eſſe uter eſt. Quod ſic ꝓmittit̃ non ſit log⁹ n̄ q omn̄s q̃ꝫ cuiuſcũq; ꝙmo ſint̃ cuiuſ ꝙmo ſit̃ 3 q̃ntitatum q̃ cuiuſcũq; ꝓpor· a·b· ad·c·d· ſicut·e·ad·f· ſit̃ a·b· maxima n̄ ex ꝓne ut·f· ſit̃ mi ma q̃ nẽm ex hoc ſequit̃ q· a·b poſita eſt maxima cũ nõ poſſit q̃ actor m̄ ne tamq̃ poſtulationẽ ꝓcurus tamq̃ ſordens poſtulatoꝝ omen; dico q̃ acta fiat manus erit ꝓportio ex a·b· c·f· q̃ ex c·d· q̃ c·g· n· a·b· ſit̃ maior· e abſtin ex a· & b· equalis· e· ſmili· quoꝝ q̃· c·d· eſt maior· ſ· abſcinta ab ea·h·d· equalis· f· et q̃ꝫ ꝓportio· a·b· ad·c·d· ſicut·5·b· ad·h·d· q̃· ꝓ·10· a·5· reſidua ad·c·h· reſidua ſicut tõ· a·b· ad tota ·c·d· a q̃· a·5· reſidua ad·c·h· ſicut a·b· ad·c·d· ſz ab· maior·cd· q̃· a5· eſt maior·ch· addatur q̃ uter q̃ꝫ d·ab· c·d· et ꝓ q̃nitꝫ ſtam ꝓportionẽ ex ab· & h·d· manus proportio ex cd· & gb· & q̃· h·d· poſita & equalis f & gb· e· manus et proportionem ex ab· & f· q̃ proportionem ex cd· & ge· q̃ ꝓpoꝫ



1 ſiierit·q· quantitatiuꝫ ꝓpoꝫ ꝓme ad 2az maioꝫ q̃ 3e ad q̃az et contrario ꝓpoꝫ 2e ad ꝓmam maioꝫ q̃ qe ad 3az Sit maior ꝓpor· a·ad·b· ·c·ad·d· 9° q̃ et eq̃ modo ſint maior ꝓpor· b·ad·a· q̃·d·ad·e· ſ·n· eſt cad·b· ad·a· que eſt·d·ad ·e· et eq̃· a·ad·b· ſicut·c·ad·d· ſz non ꝙ maior ut 10 ſi eſt·b· ad·a· maior q̃·d·ad·c· ſit·e·ad·a· ut·d·ad·c· et ꝙ·12· e ad·a· maior q̃· b·ad·a· q̃ ergo ꝓma ꝓportio· eſt·e maior·b· tõ q̃ ergo 2a ꝓportio· maior et ꝓpor· a·ad·e· q̃· ad·b· ꝙ aliquam ꝓportionẽ a·ad·e· ſicut·e·ad·d· et ꝙ·12· ꝓpor· e·ad·d· maior q̃· a·ad·b· ſz erat minor relinquit 5° ꝓpoſita· poſſimꝰ quoꝝ ſ· habz ꝓportionẽ ꝓpoſite ſue ꝙ·n· ex ꝓportione 10 illa q̃ tota cui eſt ad·b· cadit ꝓpor· que ꝙ·e·ad·d· eſt maior·a· ergo q̃ ad maior ꝓpor· a·ad·b· q̃· c·ad·d· illa 5a q̃ tota ſit̃·e· q̃ ſit̃ 5a ꝓpor· e·ad·b· ut·e·ad·d· erit eq̃· b·ad ·e· ſicut·d·ad·c· oſtẽſa· q̃ ergo 2a ꝓportio·b· q̃ ꝓpor· b·ad·a· minor 7 q̃ ꝓpor· b·ad·c· ſcias ꝙ·12· ꝓpor· b· ·a· eſt minor q̃· d·ad·c· q̃ dꝰ ꝓpoſitum

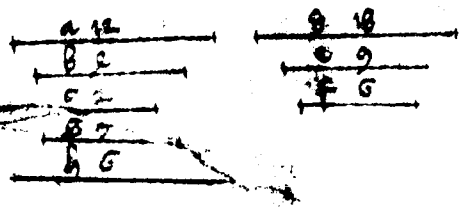


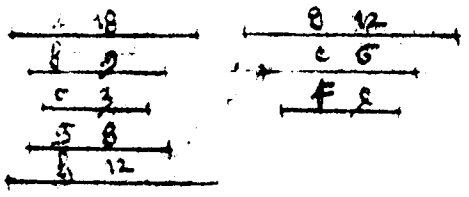
1 ſiierit quatuoꝫ q̃tum maioꝫ ꝓpoꝫ ꝓme ad 2az q̃ 3e ad q̃az erit ꝓmũ tum maioꝫ ꝓpoꝫ ꝓme ad 3a q̃ 2e ad q̃az Sit maior ꝓpor· a·ad·b· q̃· c·ad·d· ꝙ erit ꝓmũtum maior ꝓpor· a·ad·c· q̃· b·ad·d· erit·n· nõ eſt ꝙ tunc quoꝝ eſſet ꝙmũtum a·ad ·d· ſicut·c·ad·d· nz minor ſz ponat ſit̃ tota c·ad·c· ut·b·ad·d· et q̃ꝫ ꝓ·12· maior ꝓpor· c·ad·c· q̃ ·a·ad·c· et q̃ ergo ꝓma ꝓportio· eſt·e maior·a· tota ergo ꝓmum ꝓportionis·b· ꝓpor· c·ad·b· maior q̃· a·ad·b· et q̃ꝫ ꝓ·12· ꝓpoſita eſt ut ſit̃·e·ad·c· ſicut·b·ad·d· et ꝙmũtum·c·ad·b· ſicut c·ad·d· ꝙ·12· ꝙma ꝓportio ꝓpor· et·e· ad·d· q̃· a·ad·b· ſz poſterius erat oppoſitum ſtmq; 5° ꝓpoſitum Oſtenſum quoꝝ id ꝙd ꝓpoſitum aſſumpta·n· ſit·b· ut·c·ad·d· et ex ꝓma ꝓportione·e· minor·a· q̃· ex ꝓma ꝓportione·b· maior et·a·ad·c· q̃ ·e·ad·c· ſz ex ꝓmũta ꝓportione et·e·ad·c· ſicut·b·ad·d· q̃ ex·12· a·ad·c· eſt maior·b·ad·d· q̃ꝫ ꝓpoſitum

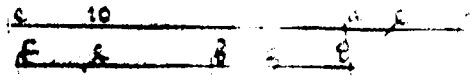
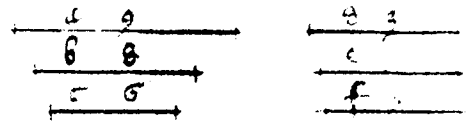


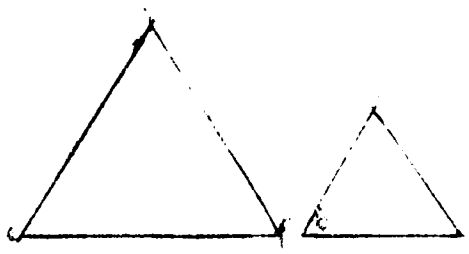
1 ſiierit·q· quantitꝫ quarꝰ ꝓme ad 2am ſit maioꝫ ꝓpoꝫ q̃ 3e ad q̃az erit quoꝝ diſtinctum ꝓpoꝫ ꝓme ad 3am maioꝫ q̃ 3e ad q̃az Sit ꝓpor· a·b· ·b· maior ſ· c·d· ad·d· dico q̃ erit diſtinctum maior ꝓpor· a·ad·b· q̃· e·ad·d· alloqui et eq̃lis et minor ſit equalis et ꝙ quictum ꝓpor· ab· ad·b· ſicut·cd·ad·d· ſi a· minor et maior·e·ad·d· q̃· q·ad·b· q̃ ꝓmiſſam maior et cad·d· ſ· ab· ad·b· q̃ꝫ impoſſibile q̃ꝫ ꝓpoſitum q̃ ſit̃ minor Dico et oſtenſum aſſumo ꝓmo ponendo·n· ut ꝓpor· eb· ad·b· ſit̃ ſicut ꝓpor· cb· ad·d· et q̃ ex ꝓma ꝓportione·cb· minor q· ab· ex ex q̃ ſita·e· eſt minor q̃· a· minor q̃ eſt ꝓpor· ex ꝙ ꝓportione·e·ad·b· q̃ ſit̃·a·ad·b· ſz ꝓpor· e·ad·b· eſt ſicut·c·ad·d· ex diſtincta ꝓpor· et ꝙ·12· ꝓpor· a·ad·b· eſt maior q̃· c·ad·d· q̃ꝫ ꝓpoſitum

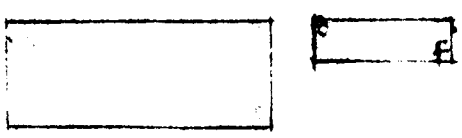
1 ſiierit·q· q̃tꝫ quarꝰ p̃ et 2e ad 2as ſit maioꝫ ꝓpoꝫ q̃ 3e et qe ad q̃as erit eueſtim minoꝫ ꝓpoꝫ ꝓme et 2e ad ꝓma q̃ 3e et qe ad q̃as Sit maior ꝓpor· ab· ad·b· q̃· cd·ad·d· dico q̃ eueſtim minor et·ab·ad·a· q̃· cd· ad·c· et·n· diſtinctum ex ꝓmiſſa maior



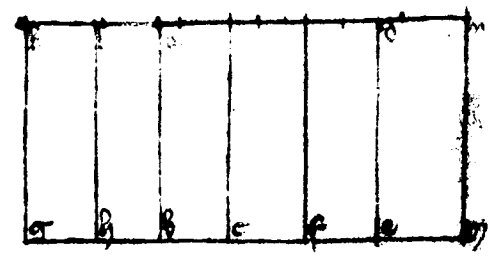


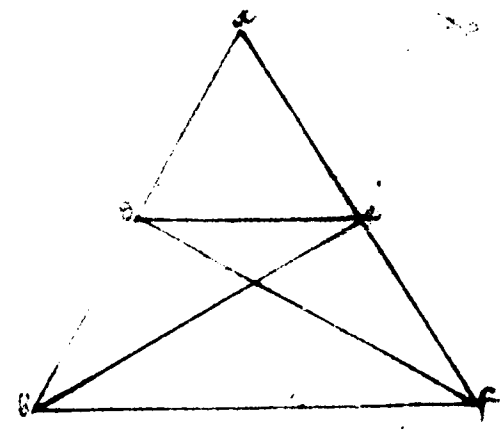



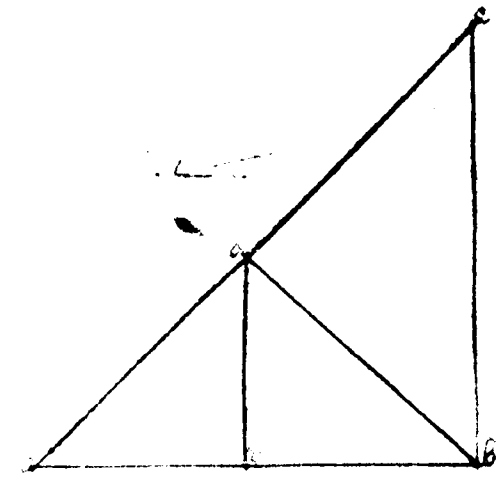


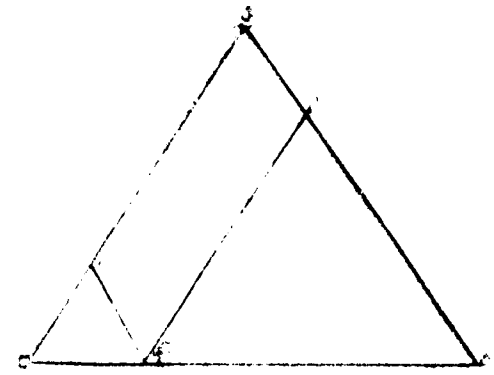


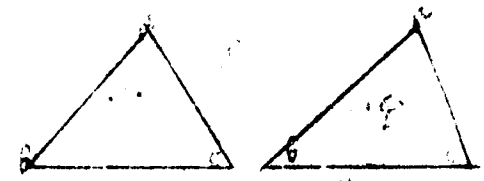
ppor⁹ a ad b ꝙ c ad d ꝙ ꝙ 26 cū mor ℄ b ad a ꝙ ꝙ ad c ꝙ ꝑ pancrpmss quctum mor
℄ ppor⁹ a ad a ꝙ ꝙ c ad c ꝙ ꝙ ꝙ

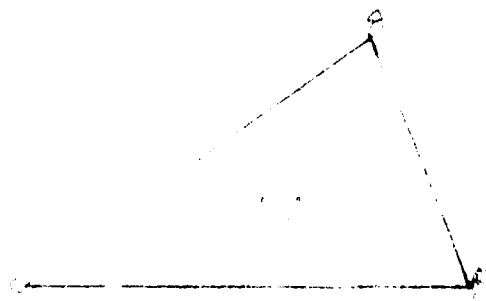












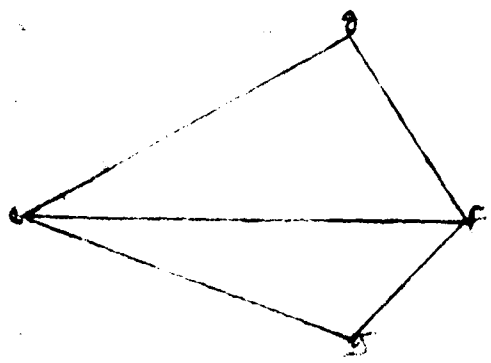
Si duarum linearum duo triangula lata secans reliquo lati fiat equedistans eay illa duo lata proportionaliter secare. Si uo ea proportionaliter secet reliquo lati equedistare necesse est

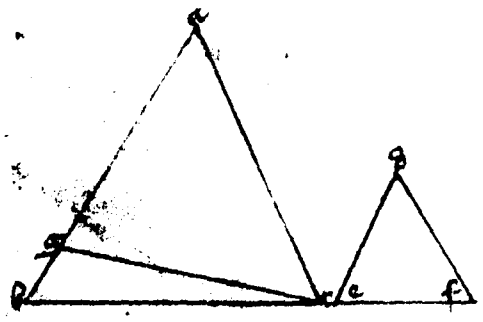
Si ab aliquo angulorum trianguli recta linea ad basim ducta angulum per equalia dividat partes duas ipsi basis reliquus equo trianguli latibus proportionales erunt. Si uero due partes basis quas linea ab angulo ducta distinguit reliquis trianguli latibus proportionales fuerint linea illum angulum per equalia secare necesse comprobatur

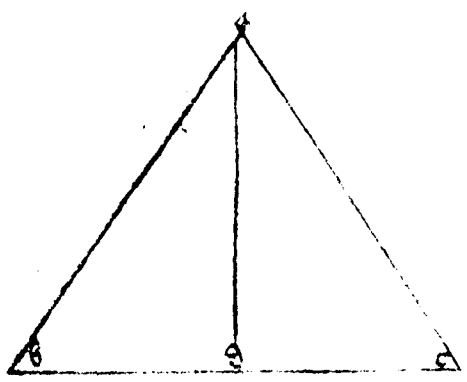
Trium duorum triangulorum quorum anguli duobus angulis alicui equales et duo lata quorum equos angulos continentia sint proportionalia. Hec tria duo triangula a b c et d e f equiangula sint et angulus a equalis angulo d et angulus b equalis angulo e et angulus c equalis angulo f. Dico quod proportionale est latus a b ad latus d e et latus b c ad latus e f et latus a c ad latus d f

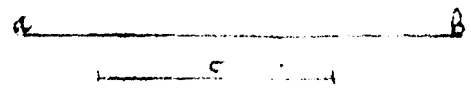
Duorum triangulorum quorum duo anguli duobus angulis alicui equales et duo lata quorum equos angulos continentia sint proportionalia. Hec tria duo triangula a b c et d e f equiangula sint et angulus a equalis angulo d et angulus b equalis angulo e et angulus c equalis angulo f. Dico quod proportionale est latus a b ad latus d e et latus b c ad latus e f et latus a c ad latus d f

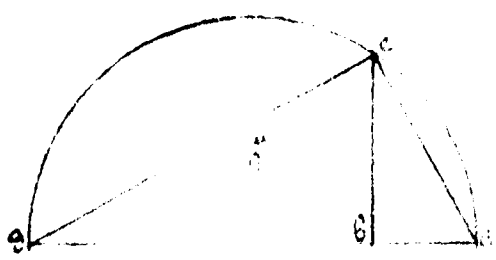
Duorum triangulorum quorum duo anguli duobus angulis alicui equales et duo lata quorum equos angulos continentia sint proportionalia. Hec tria duo triangula a b c et d e f equiangula sint et angulus a equalis angulo d et angulus b equalis angulo e et angulus c equalis angulo f. Dico quod proportionale est latus a b ad latus d e et latus b c ad latus e f et latus a c ad latus d f











gulum eq̃ale alcui⁹ angulo ·a· z angulis ·f·c·g· eq̃ales angulo·
·f·g· eq̃alem angulo ·c· cui⁹ ꝓ·zz· i angulus ·g· cõis ẽ ẽq̃lis
ꝓpr⁹· a·b· ad ·c·g· ꝛ·a·c· ad ·g·f· ſcut ·b·c· ad ·c·f· quare ·a·f· ad
·g· ꝛ·a·c· ad ·g·f· ſcut ad ·f·g· q̃ ꝓ z̃ ꝓ̃ a· q̃· ·g·c· eſt cõis
·g·f· eſt equalis ·f·g· q̃r ꝓ·b· z̃ tm⁹ duo ·g·c·f· ꝛ·g·c·f· ſũt eq̃
tm⁹ angulus ·g·c·f· ẽ eſt equalis tm⁹ ·a·b·c· ꝙ ꝓpoſitum

ſ·z· ꝛ angl⁹ ·c·
·a· ſ̃ ꝓ m⁹ ẽſt
·c·g· ſcut ad ·c·
·c·g· ꝛ ꝓ̃ tm⁹
angli q̃ ſ̃

Si fuerint duo triangli quoꝝ vnus angulus equalis alteri angulo alterius equalis latus illius vnus angulos cõtinentia ſint proportionalia ſint ut ſemper dicte equian

gula inter ſe ſibi inuicem ſint equiangula ·b· cõis angulo ·d·c·f· ꝛ ꝓpor⁹ ·a·b· ad ·d·e· ſic ·b·c· ad
·e·f· Do ad huc duos triangulos ·a·b·c· ·d·e·f· cc equiangulos Cum enim ſic ꝓportionales
ꝓmiſſe ẽnt ·a·b· ad ·d·e· ſ·g· ſcut ·b·c· ad ·e·f· ẽnt ·a·b· ad ·d·e· ſcut ad ·e·g· ſ̃ ꝓ tm⁹ ·c·ij·d·e·
cõis ·e·g· q̃ ſ̃ vna lata ·d·e· ꝛ ·e·f· ẽgonia ·d·e·f· ſ̃ equalia duobus latibus ·e·g· ꝛ ·e·f· ẽgonie
·g·e·f· ꝛ angulus Cũm angulo ·c· alterius q̃ vtr⁹q; cõis eſt cõlis angulo ·b· ꝓ̃ ẽnt ꝓ̃ ·c·
equiangulus ꝛ ·g·e·f· eſt q̃ equalis ꝓpoſitum

Si fuerit duo triangli quoꝝ vnus anguli vni⁹ vni angulo alterius cõlis duoꝝ re liquoꝝ latibus proportionalibus contenta duoꝝ vtrorũq; reliquoꝝ vtrũq; q̃ uterq; reꝝ angulo minor rectꝰ ẽ z illos 2os ẽ tales oibus similibus angulis inuicem oẽ angulos e

Sint duo triangli ·a·b·c· ·d·e·f· ſic q̃ angulus ·a· equalis angulo ·d· ꝛ ꝓpor⁹ ·a·c· ad ·d·f· ſic
·b·c· ad ·f·e· ꝛ ſit duorũ angulorũ ·b· ꝛ ·e· ſit maior cc ad minor rc ad reliquor ſit minor duo
cob⁹ cc equiangulos cc ſ·i·n· angulus ·c· vni⁹ equalis angulo ·f· alterius eſt ꝓpoſitũ ſimiliꝰ ſit
·c· maior ſitq; angulus ·a·c·g· equalis angulo ·d·f·e· cc q̃ ꝓ z̃ ꝓ̃ ·c· ẽ angulus ·a·g·c· equalis
tm⁹ ·d·e·f· q̃r ꝓ ꝙ huic ꝓpor⁹ ·a·c· ad ·d·f· ſcut ·g·c· ad ·e·f· ſ̃ ꝓ ·g·q· ·g·c· ꝛ ·b·c· ſ̃t e
quales ſ̃ ꝓ ·q· ꝓ angulus ·b· eſt equalis angulo ·b·g·c· ſ̃ ſ̃ neutr⁹ duorũ angulorũ ·b· ꝛ ·c·
ſ̃t maior rc adeo duos angulos vni⁹ tm⁹ nõ ẽ maior duobus rectis q̃ ẽ contra ꝓpoſitum ꝓ ꝓ
ubi maior ſ̃t rc ·c· angulus ·a·g·c· maior rc ꝓ z̃ ꝓ q̃r ·c· angulus ·c· ẽ equalis eſt rc
maior q̃ z̃ ꝓpoſitum q̃r deſtructo oppoſito rectũ remanet ꝓpoſitum · oz ·a· ubi reliquor angulorũ ·a· neutr⁹
ẽ minor rc ꝙ ſ·l·e· ·n· z maior cõ triangulo ut in triangulo ·a·b·c· hãz ·g·c· cc cõlẽ ·b·c· ꝛ cc ·a·c·
ad veritatẽ cõſtruendi ꝓpor⁹ vna ꝓ ·a·q· ne ſit in cornu trianguli ·a·g·c· ꝛ ·a·b·c· equalis q̃nus
vnus angulus vni⁹ ſit cõlis vni angulo alterius vt⁹ ut angulus ·a· ꝛ ꝓpor⁹ lꝰ ·a·c· ꝓ ꝛ ·a·
tus maior ad ·a·c· ꝙ ut ꝛ latus q̃ ſit ·b·c· latus maior ad ·g·c· latꝰ ꝙ vni ẽ ·n· cõlis
z ꝛ hoc ꝛ ꝙ angulus ·g· minor eſt maior rc ꝛ angl⁹ ·b· maior minor nã minor tm⁹ vni
cõlium latꝰ vni⁹ angulus cõſ qui ẽ ad baſim ẽ minor rc

Si ab ortogonio angulo rc ad baſim ha pendicularis ducat fiet duo triangli ꝛ tales totũ triangulo ꝛ ẽ ei ſimiles · vn etia manifeſtũ q; ex vno trianguli ſi ab eius angulo rc ad baſim perpendicularis ducat vni pendicule inter duas ſectiones baſis ꝓportionales cõtinuis latꝰ ꝛ tũ baſi ad ẽ continuale baſis ꝓportionem

Trigonus ·a·b·c· ortogonius q; eius angl⁹ ·a· rc aquo ducat ·a·b· ꝓpendicularis ſup baſim d⁹ q; vni⁹ duo
triangulor ꝓ altitudo qui ſ̃t ·a·b·d· ·a·d·c· ſ̃ſilis ſit ẽ triangulo ·a·b·c· ꝛ duos cõis altitudo
ꝓ altitudo eſt ſ̃ſilis altꝰ eſt ·a·d· vni⁹ cõis ergo equiangulus cõſtat ꝓ ·zz· ꝓ eo q; vni⁹ eſt ortogonius ꝛ m duo ad
gulo ſcilicet q cõis q̃r ꝛ ẽ m duo ſ̃t equian⁹ vni⁹ angulus ·b· eſt cõlis angulo ·d· ·a·c· ꝛ angulus ·
·a·d· angl⁹ ·c· ꝛ duo anguli qui ſ̃t ad ·d· ẽ m duo rc angl⁹ ·a· cõſtat cõlis q̃r ꝓ ꝙ huic latꝰ equor
eor⁹ angulo⁹ reſpiciens ſ̃t ꝓportionale ſ̃ ꝓ ꝓportionẽ ſ̃t ſ̃ſilis q̃ ꝛ ꝓpor⁹ · vni⁹ cõmuni ꝓpoſitus cuius
z ita m ꝓtalis tm⁹ ſcilicet ·b·d· lꝰ reſpiciẽs ·c· ad ·a·d· ſic ·a·d· ad ·d·c· reſpiciente alterũ a
ita vnus ·a· eſt cõlis ·b· ꝛ alter ·c· ꝛ ·a·d· latus eſt vni⁹ tm⁹ q̃ hoc h⁹ ſtet ꝙ habet ꝓ omni⁹ q̃
ꝓ q̃ eam cõcludi ſ̃ m ·a·b·c· ꝛ ·a·b·d· ꝛ ·a·d·c· ſcilicet ·b·c· latus reſpiciẽs eidem rc angl⁹
ad ·a·b· ſic ꝙ latus vni⁹ trianguli reſpiciens angl⁹ ·c· alterius trianguli ad ·b·d· latus vni⁹ tm⁹
reſpiciens ·a· q̃alem equalem ·c· · Eos m⁹ oſtenſa ꝙ alia ꝓ· ꝛ ſic ꝓ z̃ ꝓ ꝙ ꝓpoſitum

Inter duas lineas datas tres alias proportionales collocare

Sint due linee ꝓpoſite ·a·b·c· ꝛ ·c· m⁹ quas dato vni alteri m ꝙ ꝓportionẽ collocare / oportet ꝙ vni caſu ſit ·a·
ex eis compoſita ·a·d· tertia ·b·d· ſit cõlis ·c· ꝛ ſup eã rectũ ſ̃ſectũ ·a·c·d· ꝛ ꝓducatur ·b·
usq; ad cõſtitutã ꝓpendiculare ad ·a·d· ꝙ ſit ·a·e· ꝙ ſit ·b·e· ꝛ ꝓducatur ·d· ſ̃ ꝓ ·e· ꝛ ſit ·e·d· ·
q̃ ꝓ ꝓ ·z· ꝛ ·angulus· ·c· eis rectus quare ꝛ ꝓ ma ꝓ ꝓportionẽ ſ̃ſectus ꝓpor⁹ ·a·b· ad ·c·b· ſic
·c·b· ad ·b·d· ꝙ ꝛ ꝓpoſitum

ntis duabz lineis terciam eis sub comi ppõe subiuge = Fiat duc lie appõ

a·b·c·a·c· quib⁹ dato m gri ppõe ꝛam ꝓblẽ cõiungo lias a·c· angulũ ut gnt
ad·a·c· sit ag·a·b· ꝛ equalis ꝛ ꝓducta lam·a·b· ut ad·c· donec fiat·b·c· equalis·a·b· ꝛ ꝓducta
[illegible] apĩmeto·c· ducta lia ꝛ equidistãs ei ad·ꝓducto ug q gourrat m ꝓducto·f·dico
[illegible] ·f·c· ꝙ querim⁹ est·n· ꝓ ꝛam huius ppõe a·b· ad·g· ꝛ sectus·ab· ad·g·f· ſz·a·b·ad·b·c·
[illegible] ·c· ad·a·c· ꝓ ꝛam ꝓpõe·a·g· qr·a·b·ad·a·b· sectus ꝛ g·b· ad·b·f· q⁹ ꝓpõm = Qd ſ ꝓpõs ẽbz lis
·a·b·b·c·ꝛ·a·g· dabilis⁹ mbẽre ꝛas·g·f· ad ꝙ ſ ꝓpõ ꝛ· a·f· ſectus ꝓpõa·a·b· ad ꝛam·b·c· ꝙ ꝓpõ
·a·b·ꝛ a·b·c· fiat lã ẽna·a·c· ꝛ q ꝓpõs·a·c· [illegible] ꝛ q·b·b·ꝓpõa·b·ꝛ c·
·b·c· ducatur lia·b·g· ad cõm⁹ ꝛ ad·a·c· ab alia ꝙ [illegible] ducãt lie·b·g· equidistãs
·c·f· quousq; gcurrant ꝛ a·g· m gri ꝛ cõm⁹ ꝛ [illegible] lia·g·f· ꝙ lie·c·f· ꝙ
distãs abstmdo quequidẽ ꝙ fiat mi ha fia ẽna [illegible] ·g·f·

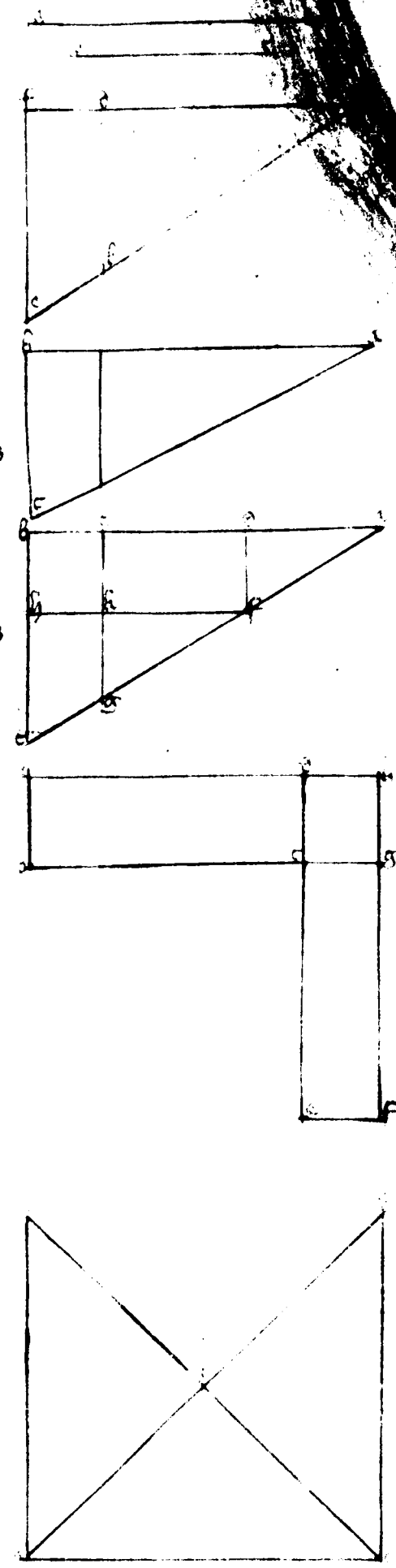
ꝙ assignata lia quotlꝫ subtendãs ꝓpõm abstmdo [illegible] lie·ab· assignata ab equo
lo adquoram ꝓpõm abstmdo cõiungo·n· angulũ ut gnt ꝓpõm mdẽs ꝙ ꝙ quesit
a·c· aquirescãt equas ꝛ ꝓpõnes que sint·a·g·d· ꝛ [illegible] ·c·b·a·g·f· ꝓducto ꝙ eq ꝙ
duc·a·f· ẽ ꝛam a·b· est·n· ꝓ ꝛam huius ꝓpõ·c·g·ad·g·a· sectus·b·f· ad·f·a· q⁹ ꝙctõm·c·a·
·g·a· sectus·b·a· ad·f·a· q⁹ ·c·a· est ꝓpõa ad·g·a· ꝓpõm·f· [illegible]

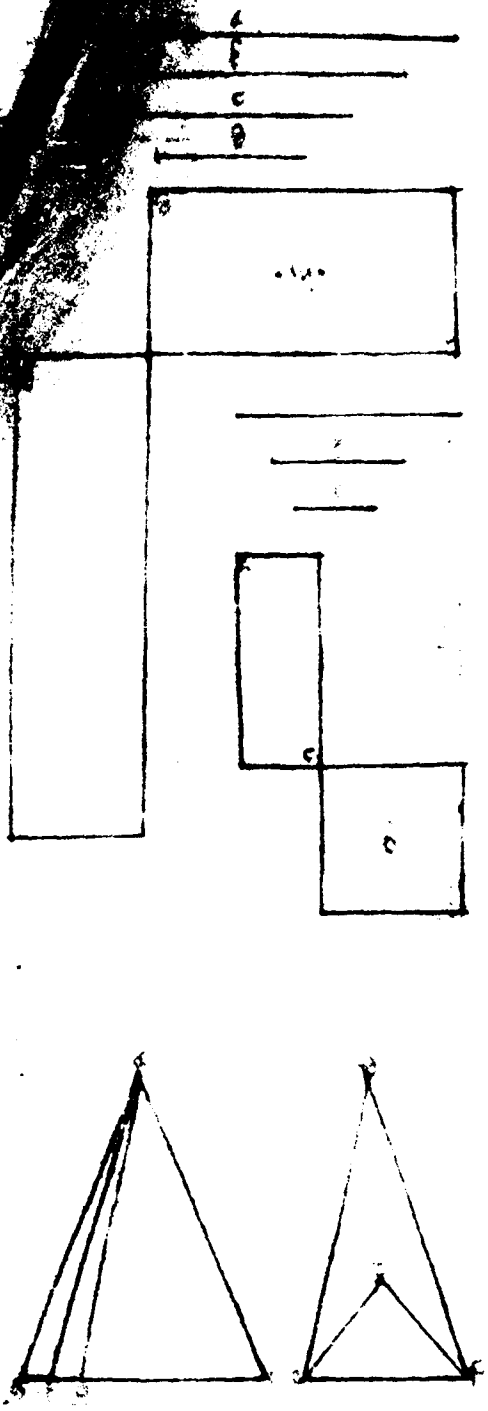
uabz lis ꝓpõis altera maiusa altãi ꝙ ꝓpõis [illegible] ꝛ maiusam ꝙd
ad minꝰ duas ducãt = Fiat duc lie quab angulũ ꝛ cõtẽm quorum·a·b·ꝛ·a·c·
sect·a·b· maiusa m·z· qualeſz ꝓpõnes assig⁹ ab me ꝙmetãs·c·ꝛ·g· dco ꝙ casꝰ ꝓpõnes quẽ
hãt·a·c· angulariẽ quidẽ ꝓpõam lam·b·c· ꝛ equidistãtes ei ducãt ꝛ ꝛ g·b· ꝙtas ꝙ ꝛ
quidẽ lias m ꝓcẽs ꝓpõnes ꝙtabz·a·b· ꝓpõam·n·f·h· equidistãtes ꝙ quesit·z· ẽ g·m· ꝙcto
·f·c· ꝙ ꝓ ꝛam huius ꝓpõ·g·f· ad·f·a· sectus·c·d· ad·d·a· ꝛ·c· g·d· ad·d·f· sectus ꝙ·b· ad·b·f·
ſ ꝙ sectus·b·f·c· ad·c·d· ꝙ ẽ ꝛ ꝛam ꝓpõ·a·g· ꝙ ꝓpõm

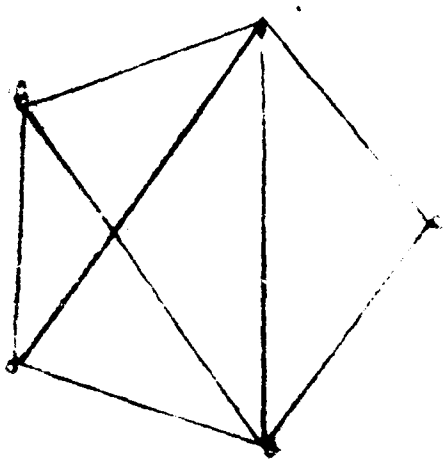
Due ſuppfies equidistãtiũ ladiũ ꝙrũ duo angulus unꝰ uni an
gulo alterꝰ equalis fuerit equales fiãt duo equos angulos cõtenta
mutuo besia ẽ: Si no lata duos ẽ equos angulos contenta mutuo besia
fuerit duas ſuppfies equas ẽ, nec ẽ = Fiat duc ſuppfies·a·b·c·d· ꝛ·c·c·ef· g· ꝙrũ
ladiũ ſũ ꝙ angulus·c·d·m⁹ equalis angulo·c·a·
duo d⁹ ꝓpõnes·b·c·ad·c·g· sectus·c·, ·c· ad·c·d· ꝛ ꝓducta fuerit ad huc cãlis d⁹ illas duas
ſuppfies equidistãtes ladiũ ẽ equales contingam·n· angulũ cui bꝫ angulis·c·d·m⁹ ꝙ
ꝙctõ·c· ducãtur ꝛ·a·b· ꝛ·c·d· ꝛ ꝓducta angulũ fuerit ad huc cãlis d⁹ illas duas
ſuppfies·e·h· ꝓpõnes·b·c· ad ſuppfiem·c·g· ꝛ ſuppfiem·c·f· ad cãdem ſuppfiem·c·h·
sectus·c·c·d·c·d· manifesta est ꝓ ꝓma ꝑs ẽ = Dein ꝓ ſ ꝓpõnes ꝙ ꝓpõnes·n·huius ꝓpõ·b·c·ad·c·g·
sectus·a·c·ad·c·h·ꝛ·c·c·ad·c·d· sectus·c·f· ad cãdem·c·h·ꝛ q ꝛ posterum ꝙ ꝙ ꝓpõ·b·c·ad·c·g·
sectus·c·c·ad·c·d· est ꝛ ꝛ ꝙ duas ſuppfies·a·c·ꝛ·c·f· ad ſuppfiem·c·h· una ꝙ ꝙ ꝓpõ ꝙ
ſ·c·h· est ꝛ ꝛ ꝙ ꝓpõnes·c·f·ꝛ ſ ẽ ꝙ 2ª ꝑs

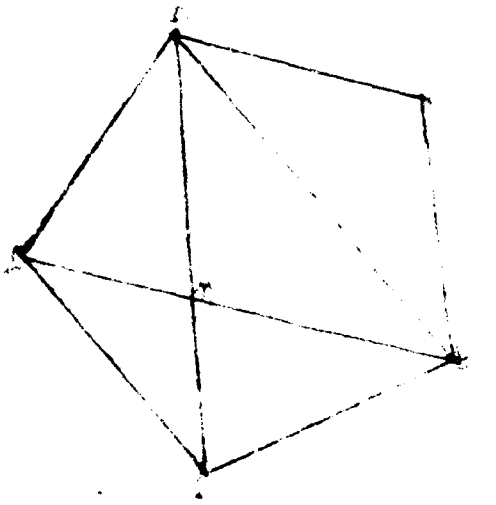
Duo triangli q⁹ duꝰ duꝰ angls unꝰ angto alterꝰ equalis equales fiãt
lata duos equos angulos contenta erunt mutuo besia = Si no lata duos
equos angulos contenta fuerit mutuo besia duo tria gli equales ẽ ꝓbãtur
= Fiat duo tria gula·a·b·c·c·d·c· ſez angulus·c·d·m⁹ ẽ cãlis angulo·c·a· alterꝰ d⁹ ꝓpõnes·a·c· ad·c·c·
sectus·d·c· ad·c·b· ꝛ ſ fiat ꝓpõ·a·c· ad·c·c· sectus·c·d· ad·c·b·ꝛ ꝓducta angulũ fuerit equales d⁹
duobus quos ẽ angulos ẽ cãlis·contingam·n·eos angulũ ꝛ ꝙ lata·a·c·ꝛ·c·c· fiant lã ẽna·a·
·c· ꝛ ſ·b·c·ꝛ·c·b· lã ẽna alie ſequãt ꝓpõ ẽ cãle ꝛ ꝙ·q· ꝓ ꝛ ꝓpõam lam·b·c· ẽ q ꝙ
lam ꝓpõ·a·q· ꝛ cãli duoꝝ angulorũ ad ẽ angli·c·b·c· ꝓpõ ẽ ẽna ꝛ q ꝙ ꝓpõa huius ꝙ ẽ cõis ad
ẽm ꝛ sectus·c·c· ad·c·c·ꝛ ẽ cõis ad cãdem sectus·d·c· ad·c·b· manifesta ꝛ ꝓ ꝑs posterꝰ ẽ
[illegible] ẽ ꝙ ꝛ ꝙ ẽ ꝛ ꝙ ꝓpõnes·a·c· ad·c·c· sectus ꝓ ẽ li ad ẽ angli·b·c·c· ꝛ·b·c·c· ad·c·b· sectus ꝛ
ad cãdem ꝙ ꝓpõa huius ꝛ q ꝛ posterum·a·c· ad·c·c· sectus·b·c· ad·c·b· erunt ẽis duobꝰ ẽ angulis
ad ẽ angulũ·b·c· ẽ ẽna ꝓpõ·ꝛ ꝙ ꝓpõa ꝓpõ·q·ꝛ nõ ſ ẽ equales sez ꝓ 2ª ꝑs

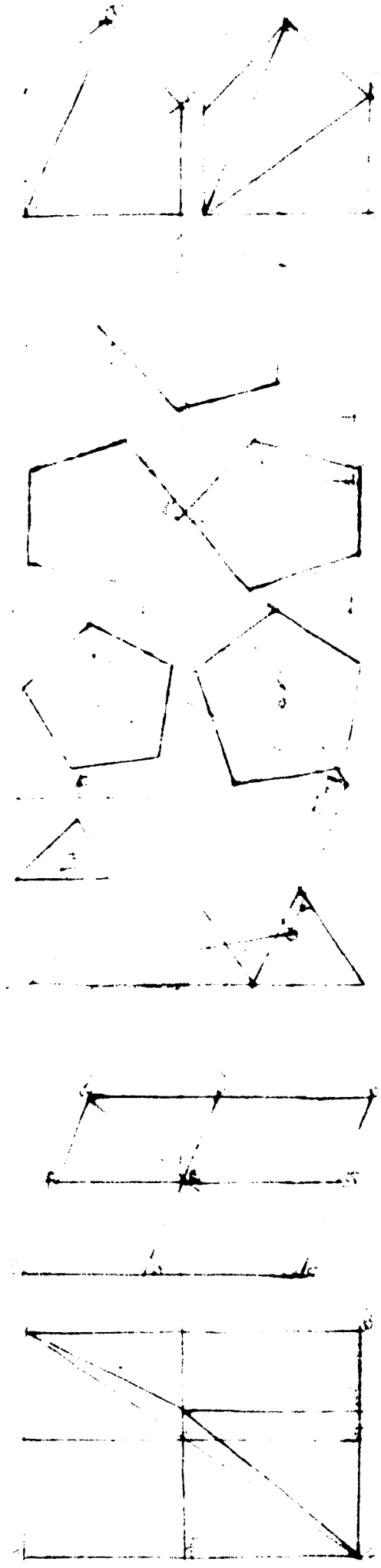
Si fuerit ꝛ hec ꝓpõ ꝙd sub ꝓma ꝛ ultia rectangulum cõtẽ equũ erit
ei quod sub duabz reliquis rectangulo contẽ: Si uero ꝙd sub ꝓma et ultia
cõtẽ equũ est ei ꝙd sub duabz reliquis ꝛctũ ꝛ lias ꝓpõnes ẽ ꝙ = Fiat







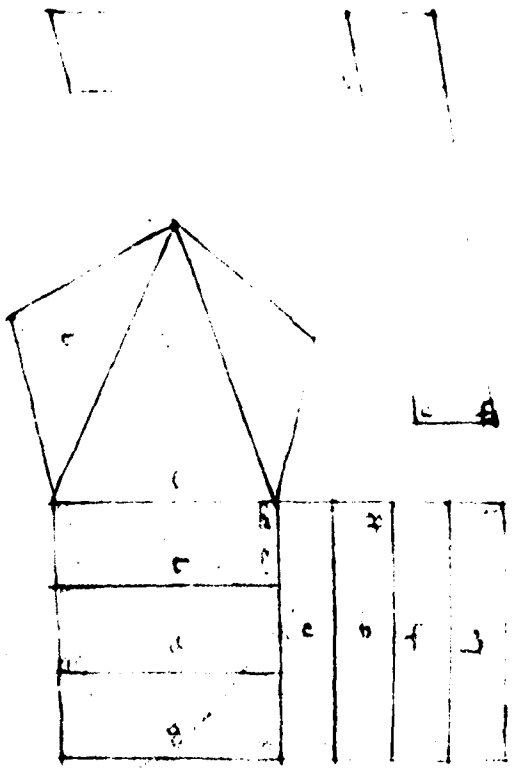


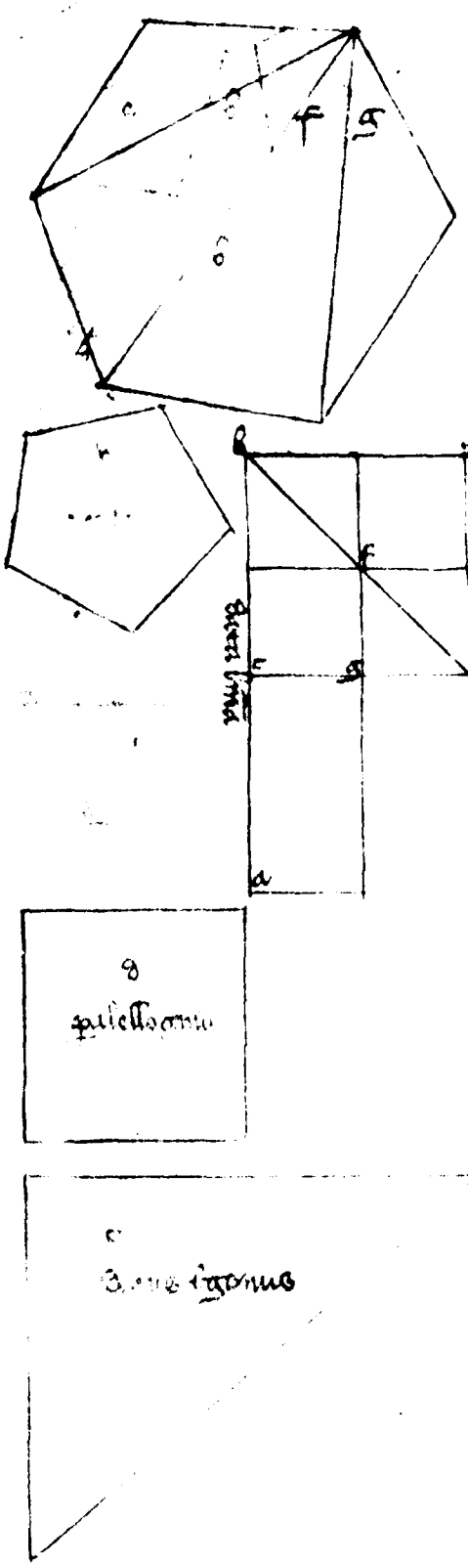


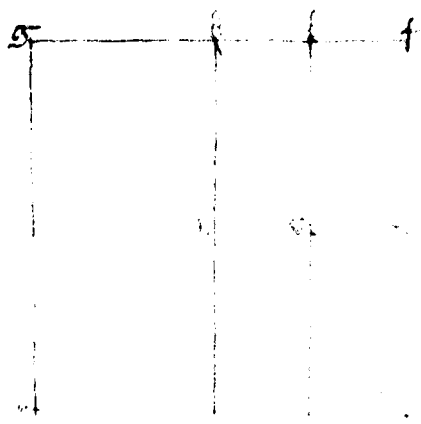
up datam lineam date superficiei similem describer superficiem

unctę superficies equedistantiu latium que circa diumetr̃ consistũt cum parel lelogrammo atz ꝺ mvicem sunt similes

n suo spacio parallelogrammũ prisale distructu cum parallelogrammo simile atz ꝑ simili illius ꝫ fiat circa eundẽ diumetr̃ a vertice







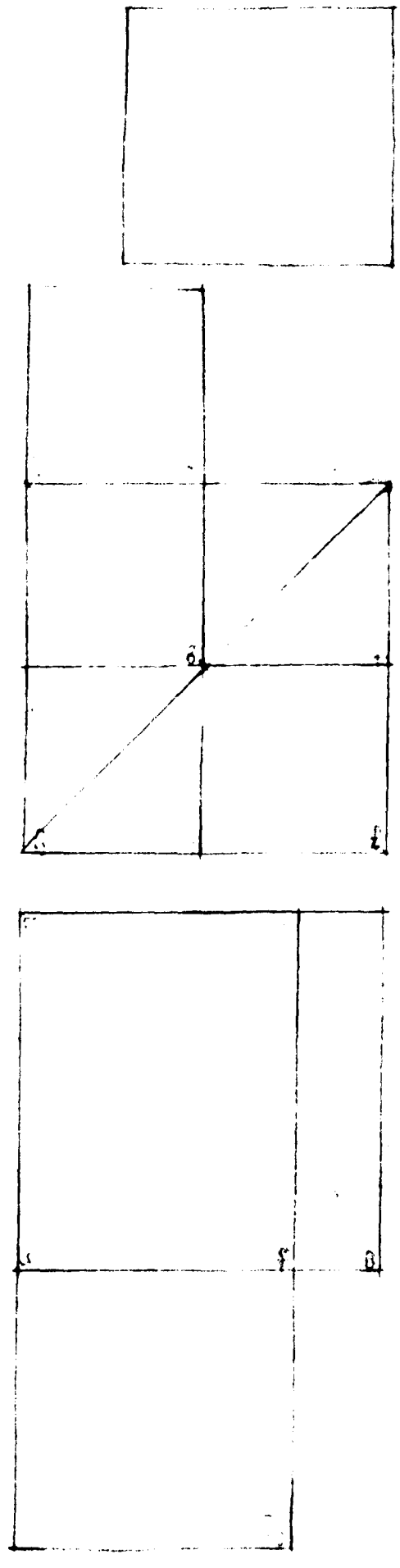
nnum duar' superficier' equedistantiu laterum quare vnus angulus vnius angulo alterius est equalis per' alterus ad alterum est que producitur ex duabz triangulis suor' laterum duos angulos equos continentium

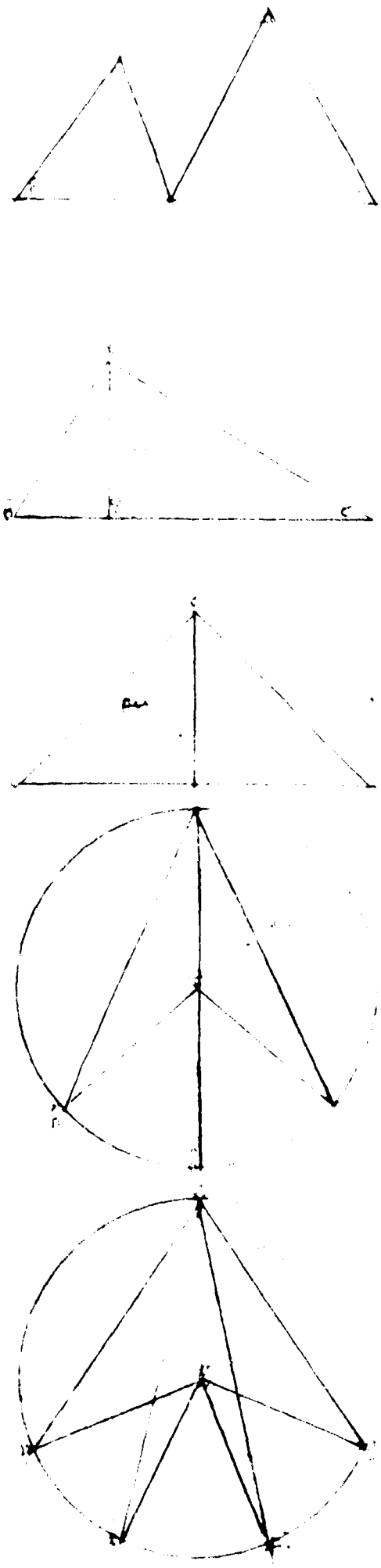
Sint due superfices equedistantes laterum lineam a.c.z.c.g. sitz angulus c. vnius equalis angulo b. alterius alterius d' q per vnu' ad alterum ducta q' ponit ne a.b. ad b.g. z e.b. ad b.c. dispositis n. his quas superfices primalis sicut dispositum est. sumo aliunde adiuncto ad vtram pillo e. et z quia ut per hec f. ad g. sic sicut hec a.b. ad b.d. ad si sicut c.b. ad b.e. quelibet ad sic sicut dem z sup io. simile et per primalium z ly. q' a.c. ad e. sicut f. ad g. z c.g. ad d.c. sicut g. ad si. per ly. q' est in equi per' a.c. ad d.e. sicut ad li. z per f. ad ij. producet ex. f. ad g. z g. ad li. ut dent z in fine ex pois. y. dissimis q' et hec a.c. ad d.e. producet que ei sit. per' sicut

aut superficiei similes ad ex per easdem superficies designare

Sint preter due superficies rectilinee. d. pendiculo. d. equagonius volo facere vnam superficiem similem a. z equalem b. vnam superficiem proposite resolvo in triangulos a. quidem in triangulos c.d. b. vero in triangulos e.b. f.g. z superficiem basium superficiei a. que sit h.k. describam ea per superficies equedistantes lineam triangulum equicrurium c. que sit h.l. z l.m. equalem a. z ni. n. equalem d. ut sit tm superficies equedistantes lineam h.m. constituta superficiei basium h.k. equalis pedi. agono. a. cois mo superficium. k.n. que superficies superficiei data linam superficiem rectangulam equalem exagono. b. per hoc k.c. ipsam e. z e. per equalem d. z p. f. equalem f. z q. r. equalem g. ut sit tm rectangulum superficiei. n.r. equalis exagono. c. cui apono p. q. simul iam f. o. sub apporte ora mo liam. h.k. z iam. k.r. z superficiei describam q. simul superficies b. similes superficiei a. dico ipsam esse quesitam superficiem similem duabz superficiebz a. et b. sicut. h.k. ad k.r. ad r.n. ita p primam ad secundam sicut a.d. ad d.n. n.r. ita p secundam ad tertiam. et p primam ad secundam sicut a. ad d. ita secunda ad tertiam. et p primam ad tertiam sicut a. ad n. per ea q' ostensa sunt. et quia sicut a. ad d. ita est p primam ad secundam. et sicut a. ad d. ita est triangulus a.d.c. ad triangulum c.d.b. et p primam ad secundam sicut a.d.c. ad c.d.b. et p primam ad tertiam sicut a.d.c. ad a.c.d. et p secundam ad tertiam sicut c.d.b. ad a.c.d

Iuxta datam lineam date superficie triangulare equilaterum pallium designare quod addat superficiei comprehense date lineae superficie equidistantium lateribus date superficiei equedistantium laterib⁹





rta est. n. angulus. a. equalis angło. e [illegible]
. o. ꝑ ꝯ ꝑ ꝑntem ꝓpoſitę ꝛ cum hꝰ ꝓ tang ſit equ[illegible] ꝛ angulus. b. eſt
. d. c. e. ꝛ angulus. a. e. d. angulo. e. ꝙ ꝑ. ꝛ. ꝑ [illegible]
bz rta ꝓ. n. equalē ſibz angłis. ꝛ hoc ꝙ quęlibz angłs ꝓpoſ ꝛ angł ꝯ ꝑ. re. ꝑ. e. c. b. eſt [illegible]

Ꝛ omni tangło rectilo ſuperficies lateris que ſubtenditur angło recto equalis ē ſuperficiebz duoꝝ laterum angłm rectum continentium ꝙ ſimiles et ſimiliter poſite fuerint

Ad ꝓpoſitū penultimā p̄ de ſuperficiebz quadratis ꝓpoſitio ꝑ penultima ꝯ de oꝛbz ſuperficiebz ſimilibz ſimiliterq; ꝯ
co duplicatū quattuoꝛ ſuperficiebz lateꝛ quadrato eſt rta ⁊ angulus rectus angulus. a. b. c. rectus angulo
. d. ſit rectus ꝙ ꝙ ſuperficies recta ſup latus. b. c. eſt [illegible] duabz ſuperficiebz rectis ſup. c. b. ⁊ a. c.
⁊ omnes. ꝛ. ſuperficies ſimiles inſtā ⁊ ſicut diximus ꝓpoſitione octaua. duoꝝ ſimilium ꝑ
corrent ꝙ latus ꝓpoſ. b. c. ad. c. a. ſicut. c. a. ad. d. c. [illegible] c. b. ad. b. a. ſicut. b. a. ad. b. d. ſic rectę
q̄d. ꝛ. lineaꝝ. b. c. ⁊ [illegible] c. a. b. ſint ſuperficies ſimiles alię ſimiliterq; deſcripte ſuper. a. b. ⁊ c. ꝯ
ſtrui. a. ſtrę ſ. b. c. ꝓma ad ꝙſtruendā ſup. a. b. ⁊am ſicut. b. c. ꝓme ad. d. b. ⁊am ⁊ ꝓpoſ ꝯ
ꝙ ꝑ ꝙſtruam ꝓpoſitę ſuperficiebz. [illegible] ad ſuperficiem. c. b. ſicut. c. d. ad. c. b. ⁊ ſimiliter. a. b. ad. b. e. ſicut
. e. ſit ad. b. e. ⁊ conſtruatur. a. c. ꝓma. b. e. ⁊ q̄a ⁊ [illegible] c. d. ⁊a ⁊ a. b. quęcūq; ⁊ b. d. 6ª ⁊ angłus
ꝑ penultimā ꝑ ꝙ ꝑ penultimā ꝑ ꝓpoſ ſuperficiebz ꝙſtructis ſup. b. c. ad duas ſuperficies ꝙſtructas ſup. c. a. ⁊
. a. b. ſit ſicut. b. c. ad. d. c. ⁊ b. d. ſimiliter q̄ ꝙ. b. c. eſt equalis ſuperficiei. c. ſ. ⁊ d. b. ſimiliter ſcripte ⁊
ſuperficiebz ſup. b. c. equalis duabz ſuperficiebz ꝙſtructis ſup. a. c. ⁊ a. b. ſimiliter ſcriptis q̄d ꝙ ꝓpoſ. Conſ.
quoꝝ huiuſ ꝓpoſitionis poſſimus demonſtrare ꝑ modū demonſtratū ꝓxime ꝓpoſitione octaua. ſit. n. angulus. a. b. c. ſtę
ꝙ ſuperficies ꝙſtructa ſup. b. c. equalis duabz ſuperficiebz ꝙſtructis ſup duas lineas. a. b. ⁊ a. c. ſimilibz ꝙ ꝙ
ſimilis. a. eſt rectus ponatur. n. angulus. c. a. b. rectus angulo. a. d. c. [illegible] m. a. b. erit ꝑ hanc. 21. ſuperficies
ꝙſtructa ſup. c. d. [illegible] duabz ꝙſtructis ſup duas lineas. c. a. a. d. ſimilibz ſcriptis ⁊ duabz ꝙſtructis ſup duas
que ſunt. a. b. ⁊ a. c. ſimilibz ꝙ ⁊ ſcriptis ſup. b. c. ſimilibz hic. n. poſtea ꝛ [illegible] duabz ſuperficiebz ſimi
truetis ſup. a. c. ⁊ a. b. ſimilibz erit ꝙ linea. b. c. equalis. c. d. ꝙ ꝑ theorema ꝓ angulus. a. ꝛ rectus

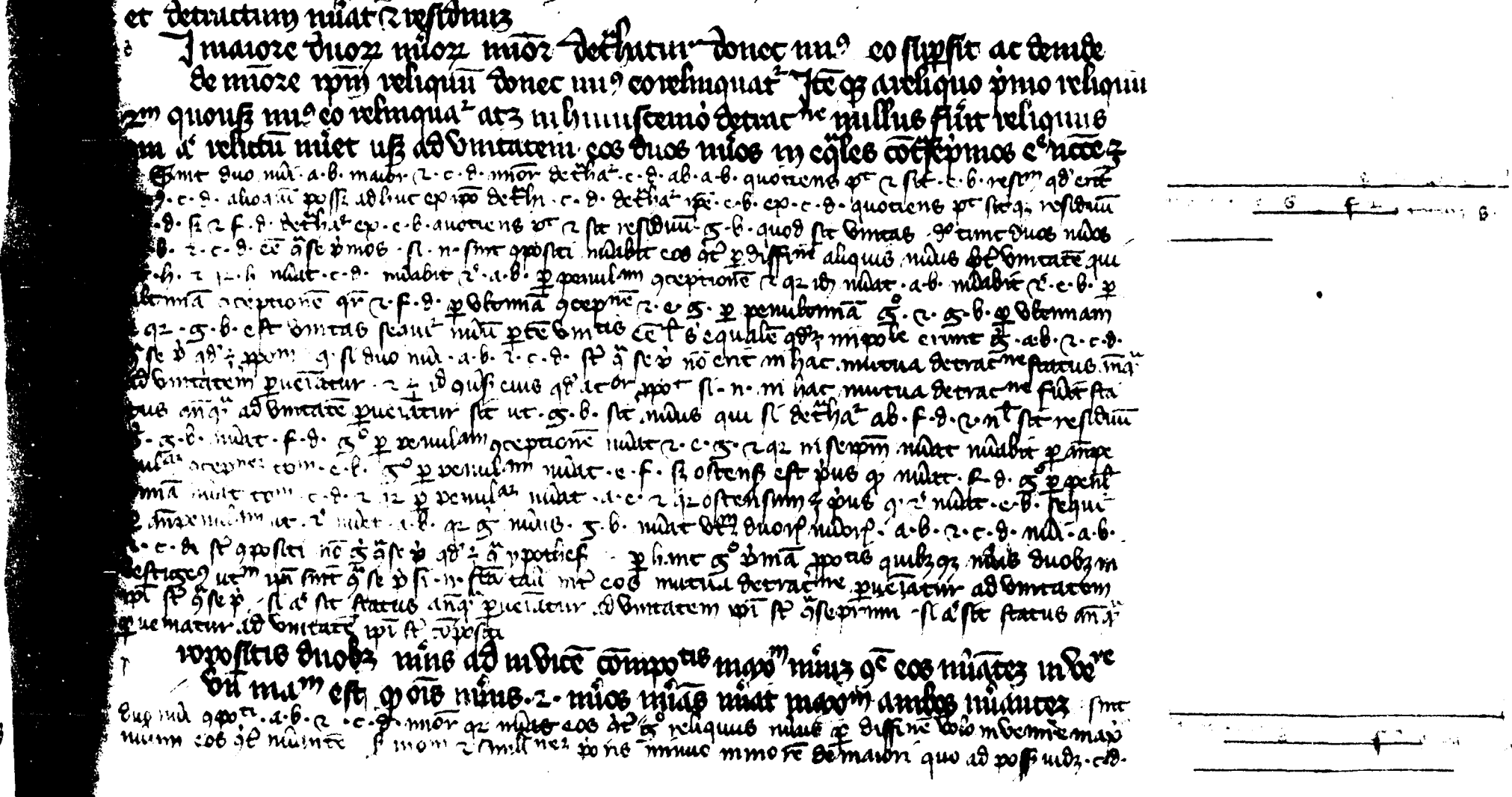
In omnibus [illegible]ibz ſeu ſuperficiebz angulus contingentie contingi ꝓpoſito circuli illos angulos ſuſtinentium

Sit circulus. a. b. c. cuius centrum
. d. ⁊ c. f. ſ. ſit alius centrorum. h. equalis ſup quoꝝ centra ſint duo anguli. b. d. c. ⁊. f. h. g. ⁊ ſup
ꝓpoſitę circūferentias alii duo qui ſint. b. a. c. ⁊. f. e. g. dico ꝙ ꝓpoſitorum angulorum rectilineorum
ꝙ corū qui ſunt ſup circūferentias eſt ſicut arcus. b. c. ad arcum. f. g. Conabo. n. illos duobz arcubz ꝙ
ſicut equales ſumere cuiuſcunq; ſuerint duplos ſexti arcus. k. b. equalis. b. c. ⁊ ſuccęſſiuos
. m. ⁊. f. b. equalis. f. g. ⁊ ꝙducta linea. k. d. ⁊ a. g. h. ſ. h. m. c. ſ. c. erunt ꝑ 26. 3ę anguli
ſunt ad. d. ad mbitum equales ſimiliter quoꝝ ⁊ qui ſunt ad. h. ad mbitum equales ſunt ⁊ duplus qui eſt ad.
⁊ ſingulus qui eſt ad. c. ſicut ꝙ arcus. k. c. eſt multiplex arcus. b. c. ſ. angulus. k. d. c. angulus. b. d. c. ⁊
. k. a. c. angulus. b. a. c. ſimiliter ſcilicet arcus. m. g. eſt multiplex arcus. f. g. ita angulus. m. h. g. ad
. f. h. g. ⁊ angulus. m. c. g. angłi. f. c. g. ſi ſit arcus. k. c. eſt equalis arcui. m. g. angulus. k.
d. c. eſt equalis. m. h. g. ⁊ angulus. k. a. c. angulo. a. c. g. ⁊ ſi maior maiores ſi minor
minores ꝑ. 6ª 3ę ⁊ ꝙ deffinit proportionem ita ꝙ ꝓpoſ. f. g. arcus ad arcum. b. c. eſt ſicut an
. f. h. g. ad. angulum. b. d. c. ⁊. f. c. g. ad angulum. k. a. c. ꝙ ꝓpoſ. Ꝛ Ad intelligē de an
gulis in eod circulo

mitas eſt qua ſingulę res una dicit. Numus eſt multitudo ex unitatibz compoſita. naturalis ſeries numeroꝝ dicit in qua ſecundum
additionem fit ꝓportio continua. Diſcretus numerus appellatur ꝙ maior
habundat a minore. numerus primus dicit qui ſola unitate metitur
. Numerus compoſitus dicitur ꝙ alius numerus metitur. Numeri co
contraſeptimi dicunt qui nullo numero exceptaſola unitate numerant
. Numeri admixtę compoſitę ſunc quantes dicunt quos alius numerus ꝙ unitas me
titur. nullus eoꝝ eſt abalio primus. Numerus alteri multiplex dicitur qui totiens
a coacervatur quotiens numerus multiplicatus eſt unitas. Punctus a dicitur ꝙ ex eoꝝ mul
plicatione conſcreſcit. Numerus alteri minor dicitur qui ꝙ alioꝝ multiplicatus il
lum ꝓducit. Pars eſt minor numerus maioris ꝙ minor maiorem metitur. Et ꝙ
metiens numeris multiplex appellatur. Denominans eſt numerus quotiens partes ſumuntur. ut ſuoꝝ
. Similes dicunt partes quę ab eisdem numero denominantur. Unitas eſt ſimpla mensura

est vnitas · Qui duo nũi ptem habuit omnes tot partes maioris dicent
cc minores quoties cadit pus sint in minore tot uo quoties vpi pus sint in ma
iore · Nũi ad minimum dicetur ppõ minoris quidem ad maiorem in eo q est
maioris pus q ptes maioris uero ad minore sed cum contineat eius ptes t
ptes · Cum sint quotlz nũi ppõles continue dictã ppõ p ad zm sicut primi ad
zm duplicata ad em u triplicata · Cum autem sint duo t diuse ppõnes dictã
ppõ primi ad ultimũ ex omnibz composita · Denominatio dicitur ppõnis minoris
quidem nũi ad maiorem pus t partes minoris que in ma re st maioris ad ma res
totũ t totum · pus t partes quibz maior sup sunt · Similes siue vnaalii cade
dicuntur ppõnes que eandem denominationem recipiunt maior ut que maiore mino
re uero que minorem · Nũi u quor ppõnes dna ppõles apellantur · Terminus siue
radices dicunt quibz ut eadem ppõnes in res sũi est mipole · Denominum .q. sunt
ulz nio quotlz posse sũi equales · ut libz multiplices · Quotlz nũs aliq
quoz sumẽ posse maiore · Serie nũoz in infinitũ posse pducẽ · nullũ
minimum in ifm posse dmmmu · Communes ãi conceptiones st .10.
ueoz eusdẽ siue equalium sunt eque multiplices qui quoz erunt equales · Quibz
idem minus equemlt sunt siue quoz equemlt sunt equales · ut qui est
equales · Omis nũi pus est minor que maiorem hz denominẽ maior uero que
minorem · Quotlz unus totus est abnitate quotũ pus vpi est vnitas · Quoz
unus in vnitatem ducti se ipm producit · vnitas quoz in quoz ducta producit eu
dem · Quoz minus diuidat duos nisi quoz compositum ex illis · Quoz
minus metiat aliquem nisi omnes metiũ ab illo · Quoz minus metiat totũ
et detractum nisi ut ipsum

Inmaiore duoz nilor minor detrahatur donec nullus eo supersit ac demde
de minore rpm reliquum donec nullus coreliquat · sic q ex reliquo ppmo reliquum
2m quoties nullus eo reliquat · ex hijs nullis demũ detrahẽ nullus sunt reliquus
in a relictu metiet usq ad vnitatem · eos duos nulos in cõles correspondentes ·



vposicas tribz nūs ad mbicē ꝯpositus mapoꝝ nūz eos ꝙ nūantē i bem

nūz duoꝝ nūoꝝ i equaliū nūoꝝ maiozis a' ꝑs ē a'ꝝ

tes

i fierit ·ē· nūz quoꝝ ꝑmus tota ꝑs 2' quota 3'ꝫ ·ē· erit ꝑmꝰ ꝫ 3' ꝑs

acepta tōt ꝑs 2' ꝫ ē' ꝑs acceptoꝝ quota ꝑ' 2'

i fuerit ·ē· nūz quoꝝ ꝑmꝰ tote ꝑtes 2' quote trius ·ē· erit ꝑmus ꝫ 3' ꝑs

acepta tote ꝑtes 2' ꝫ ē' ꝑs acceptoꝝ quote ꝑmꝰ 2'

1 flunt duo mii quoz duus altius pars dimidiuz ab utroz cozz vii pars erit ixtiguus pars reliqui quota totius totius Quod ꝓpositū hñc euclides

mdo ꝓposuit sequens m̄ q̄a q̄m ḡtiz m̄ ḡnc ſt̄ ꝫ ut quota pars ꝫ tot⁹ .a. totius .b. tot̄ ſt̄ .c. ꝫtractus ab .c. mdo .d. detracto .a.b. d⁹ q tot̄ erit reſduus .a.c. tot̄ .f. reſduo .b. quota tota .a. totius .b. ſt̄ .n. ꝑ ꝑma ꝑtiñ .c. tot̄ pars .g. quota .e. eſt .d. erit ꝫ .q. a. tot̄ pars ꝓpoſ ep .g. c. d. quota ꝫ .f. c. d. qr c quota ꝫ .b. detꝛcto g⁹ utrobiz mdo .d. erit .g. cālis .f. qr erit .g. equalis .f. qr &. .e. tot̄ pars .f. quota ꝫ .a.b. tot̄ .n. erit .e. g. qd ꝫ ꝓpoñ

1 adhuobz mdis quoz ablt altius ptes ꝓpositis ptes ille ſubtrahuntur erit reliquus reliqui hedem ptes ꝫ tot⁹ totius Hec eſt conuſa ſi &. ut quot

quote partes eſt totius .a. totius .b. tot ꝫ tote .e. detractus ab .a.b. detracti .a.b. erit reſdus tot ꝫ tote .f. reſdui .b. quot ꝫ quote ꝫ .a.b. ſt̄ .n. g. dna ꝓtiñ a. ꝫ .h. dna ꝑtiñ .c. cuiꝫ ꝓ poñ .g. tot̄ pars .a. quota .h. .c. ꝫ .g. tot̄ .b. quota .h.d. detꝛcta g⁹ .g. ꝫ reſtz .k. erit .k. ꝑ ꝓmiſſ tot pars .c. quota .g. a. ꝫ .k. tot̄ .f. ꝓcamb quota .g. .b. qua ꝫ .c. ꝫ .f. ſunt ꝓtes q⁹ que eſt .k. erit pars differes ꝓtes .f. tot quota pars eſt .k. c. ꝫ tot̄ quota eſt .k. f. ꝫ ꝫ tot tote erunt .a.b. ꝑ ꝓpoñ

1 fuerit .q. minꝰ ꝓmus ꝛ tot̄ pars quota ꝫ q' erit ꝓmiñ tot̄ pars ꝑ ptes ꝓmꝰ ꝫ quota ꝑ ꝑtes ſecundus q' Sit .a. ꝓmus tot̄ pars .b. ꝛ quota

.c. .d. q' ſmez .a. ꝫ .b. mones .c. ꝫ .d. aliꝰ n̄ eſſ cōno q⁹ ꝓponit d⁹ ꝫ tot̄ pars t ptes eſt .a. .c. quote t quota eſt .b. d. dnadecim .n. .b. ꝫtiñ .a. .d. d⁹ .b. .c. erunt ꝫ ꝓtiñ ꝓpoñ tot ꝑ tres .b. quot .d. ꝫ qua dnaquez ptiñ .b. eſt cālis .a. ꝫ dnaquez ꝑtium .d. equalis .c. eſt .a. .d. tres ꝑtes ꝫ ꝓtiñ ꝓpoñ ꝫ eam erit dnaquez .b. ſuc ꝑtes ep ꝓtez .d. ut ꝓ ꝓmc ꝛ .c. de cetis tot̄ pars ꝑ ptes quota t quote eſt .a. c. ꝫ qualibꝫ t .c. ſub ꝺſuc ne quotiens oꝑ tet ep tas et pars ꝑ ptes .a.b. quota t quote eſt .a. c. qd ꝫ ꝓpoñ

1 fuerint .q. mꝰ quoz ꝓmꝰ tote partes ꝛ quote ꝫ .q. et ꝑmiñ ꝓmꝰ tot̄ pars ꝑ ptes ꝫ quota t quote ꝛ q' Sint .q. mꝰ qui ꝓs quoꝝ ſmis ſint m res

.a. .b. ſtez .a. tote ptes .b. quote .c. eſt .d. d⁹ q tot̄ pars ꝑ ptes eſt .a. c. tot̄ tote .e. eſt .b. d. quo .f. .q. d⁹ tot̄ pars ꝑ ptes eſt .e. f. quota t quote eſt .b. d. dnabus n. mones qui ſt̄ .a. ꝫ .c. .b. illas ꝛmez ꝑ ꝓtiñ ꝓpoñ tot partes .a. quot .c. ꝫ q dnaquez ep ꝓtez .a. eſt tot̄ pars .e. ꝫ ep ꝓtez .t. eſt .d. ep mia n. d⁹ habeñ ꝓpoñ eſt erit ꝫ ꝓmiſſ ꝓmiꝰ ꝓpoñ ut quota .f. q⁹ .b. eſt .b. d. tota t tote ſt̄ dnaquez ep ꝓtez .a. ſuc ꝑtes ep ꝓtez .c. ꝫ q am ꝺſt ꝫ ſuc .f. .e. ꝓtes ꝛ oportuit ꝓtes ꝛ erit tot pars ꝑ ptes .b. d. quota t quote eſt .a. c. qd ꝫ ꝓpoñ

1 fuerit .q. mii ꝓtes quoz ꝓmꝰ ꝛ ꝫ quarto ſit maioz erit ꝛ tot̄ pars ꝑ ptes ꝓ quotiz q' ꝫ⁹ Qꝛ ſi ꝛ fuerit tot̄ pars ꝑ partes ꝓ quota t quote quartus ꝫ⁹ .q. mios ꝛ ꝓtionales conſtet Sit ꝓpoſ .a. ad .b. ſicut

.c. ad .d. ſmez .a. ꝫ .c. maiores d⁹ q quota pars ꝑ ptes eſt .b. a. tot t tot̄ eſt .d. c. ꝫ ego erit ꝓ diffinis quota ſcilicet ꝓtium ꝓtes ꝛ quotiens .b. m. .a. totiens ſt̄ .d. m. .c. ꝫ ſi quota pars ꝑ ptes .b. ſuꝑfluit m. .d. tot̄ pars ꝑ ptes .d. ſuꝑfluit m. .c. ſi ꝫ ꝛ me .b. m. .a. ſme ſuꝑfluit ꝓtes totiens ſme ſuꝑfluit ꝛ me .d. m. .c. erit ꝫ diffinis ꝓtium quota pars .a.b. tota .c.d. q ſi quotiens .b. ꝛ me .d. m. .c. ſuꝑfluit ꝓtes totiens ſme .d. m. .c. q ſuꝑfluit ſmas ꝓtes diſtincto .a.g.b. ut ſuꝑ .f. erit tot̄ pars .e.b. quota .f.d. ꝛ ꝫ totiens ꝛ me .b. mi .d. quotiens .g. m. .c. ad .f. .e. ꝫ q mez ſam totiens .c. m. .a. quotiens

1 milet vnitas aliquez minz quotiez cuilz 3z alicui ꝯ erit ꝯz ꝑmissa vtcuq;
cus vnitas miat 3m totiez 2z miat ꝯ

1 duoz nûoz vez ducat' malt' qui mde ꝓducti ert equales

1 minus m vnios ducatu tantus erit duoz mde ꝓductoz alt' ad altum
quantus duoz mltiplicatoz alt' ad altum

1 Duo nũ ꝟ multiplicãt erit ꝓportio ducti ad alterũ ut ducti ad alterũ tanq̃ duo ad multiplicantem

Ex assumpto. Nam ex demonstratis in ꝓmissa conclusum est quod ꝓportio a ducti in b ad ducti in c sicut b ad c. erit autem ꝓportio ducti a in b ad ducti in c sicut a ad c. ergo ꝓportio a ducti in b ad ducti in c sicut b ad c. Et ꝓportio ducti a in c ad ducti in b sicut c ad b. Quare ꝓportio ducti a in b ad ducti in c sicut ducti a in c ad ducti in b. Quod si ꝓportio primi ad secundum sit sicut tertii ad quartum. Et ꝓportio primi ad secundum sit sicut tertii ad quartum. Quoniam igitur ꝓportio ducti primi in quartum ad ducti secundi in quartum sicut ducti primi in tertium ad ducti secundi in tertium. Et ꝓportio ducti primi in quartum ad ducti secundi in quartum sicut primi ad secundum. Et ꝓportio ducti primi in tertium ad ducti secundi in tertium sicut primi ad secundum. Quare ꝓportio primi ad secundum sicut ducti primi in tertium ad ducti secundi in tertium. Quod si ꝓportio ducti primi in tertium ad ducti secundi in tertium sicut primi ad secundum. Et ꝓportio ducti primi in tertium ad ducti secundi in tertium sicut tertii ad quartum. Quoniam igitur ꝓportio primi ad secundum sicut tertii ad quartum. Et ꝓportio primi ad secundum sicut ducti primi in quartum ad ducti secundi in quartum. Et ꝓportio tertii ad quartum sicut ducti primi in quartum ad ducti secundi in quartum. Quare ꝓportio ducti primi in quartum ad ducti secundi in quartum sicut ducti primi in quartum ad ducti secundi in quartum. Quod si ꝓportio ducti primi in quartum ad ducti secundi in quartum sicut ducti primi in tertium ad ducti secundi in tertium. Et ꝓportio ducti primi in quartum ad ducti secundi in quartum sicut tertii ad quartum. Et ꝓportio ducti primi in tertium ad ducti secundi in tertium sicut tertii ad quartum. Quare ꝓportio ducti primi in quartum ad ducti secundi in quartum sicut ducti primi in tertium ad ducti secundi in tertium. Quod si

1 nullꝰ nulli contrasep̃ fuerit ꝓ fluuiam ꝓporrigꝫ vna

Hec est communa diffinicio ut si fuerint duo nulli a.c.b. contrasep̃ non duxꝫ ꝓ fluuiam ꝓporrigendam erunt nulli nulli cadꝫ ꝓporrigꝫ c.c.b. gstat ideꝫ ꝙ 21. q. c. nullus a.c.b. eãliter se habꝫ ꝓ b. c. etꝫ ꝓla. ut nec ista. c. nullus a.c.b. a quib ꝓ. c. c.b. ꝓ. d. nõ ꝙ ꝓ. a.c.b. gstat ꝓ. c. c.b. ꝓ. d. ꝙ vnusquisq; fluuiꝫ quoꝫ quilꝫ nullꝰ ꝙ nullus nõ nullus ꝓ remanere fluuiꝫ ꝓporrigendꝫ nullus nec si fuerint a.b.c. quib nullus quos omnes nullus nullus dꝰ ꝙ non ꝓ. m. generi fluuiꝫ ꝓporrigendꝫ nullus aliquis fuerit nullus d.e.f. qui ꝓ. 21. nullabunt a.b.c. nisi fuerit relatum equaliter sic ꝙ ꝓ. ꝙ. erit ꝓ. la. ut nec ista. ꝙ. nullus a.b.c. d.e.f. aliter ad ꝓximum posterum

1 fluuius duo nulli gsep̃ si quis vnus cozꝫ nullus ad alterꝫ ripam ꝓ nullo ꝓporrigendꝫ

Fuerit a.c.b. gsep̃ c. ut nullus a. dꝰ q. c. ꝓmus est ad b. aliquis nullus eos scilꝫ c.b. nullus d. qui ꝓ quoꝫ nullus nullus nullus a. nõ ꝙ. a.c.b. gsep̃ d. n. aliquis

1 fluuius duo nulli ad alterꝫ quemlꝫ ꝓ qui eo ductu vnus nullus alterꝫ ꝓducetur ad eum dꝰ est ꝓmus

Sit ut ꝓ duoꝝ nullorꝫ a.c.b. ꝓmus ad c. c. ex. a. nullus b. sit d. dico ꝙ d. est ꝓmus ad c. alter. n. nullus eos b. d. c. nullus c. c. ꝑ. d. aliquis si. f. ꝙ ꝙ. f. nullus ꝓducat d. ꝙ eo ductu c. nullus f. ꝓducꝫ d. ꝑ eo ductu a. nullus b. ꝓducꝫ d. ꝓ eo. a.c.b. cum est ei ad primum eo. c. c. f. sit c.b ut erit ꝓ eam ꝙ. eo ꝙ ꝓ. d. c. sicut f. ad b. ꝙ. a.c. c. sit ꝓ ꝙ ꝓ. c. nullus c. ꝓ. ꝙ ꝓmꝰ ad a. quare ꝙ. d. est fluuiam ꝓporrigendam nullus sequitur ꝙ ꝓ. ut c. nullus b. c.a. posterius ꝙ ꝓ. nullus c.b. c. gsep̃ ad ꝙ ꝓ.

1 fluuius duo nulli contrasep̃ qui eo duo cozꝫ nullus ꝓ fluuiam ꝓducꝫ ad reliquum et

Fuerit gsep̃ a.c.b. c. ꝙ sic stat. c. dꝰ ꝙ. c. est ꝓmus ad b. sic. n. d. equalis. a. c. ꝙ. eo. a. nullus d. stat. c. ꝓ ꝓmꝰ ꝑ ꝓ. c. ꝓmus est ad b. ꝙ ꝓ.

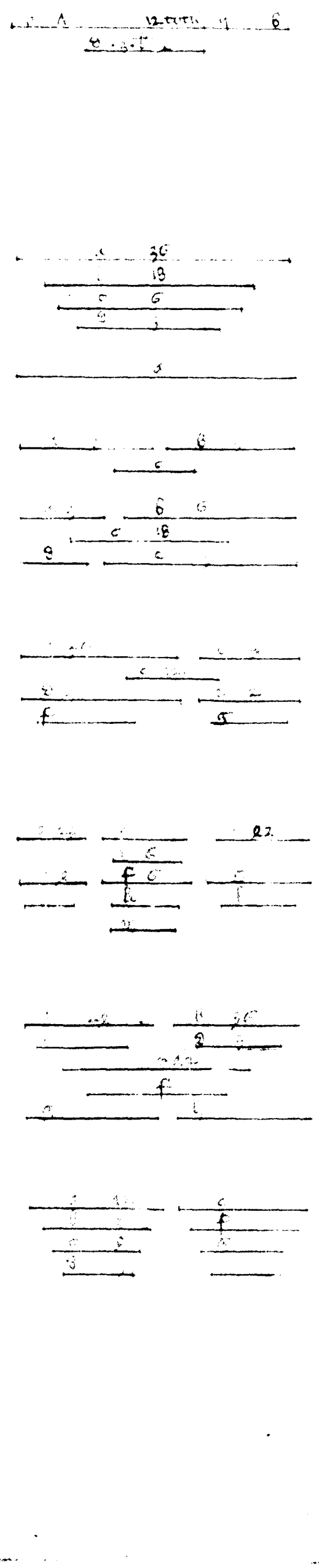
1 duobꝫ nullus ad duos alios contrarios ut adultꝫ fuit ꝓmus qui eo duo ꝑ ꝓximis ad eum qui eo duobꝫ posteriorib ꝓducatur erit ꝓmus

Fuerit a. c.b. ꝙ. posteriores sic ut duoꝝ a.c.b. ꝓmus ad duos duoꝝ e. c.b. c. ꝙ eo. a. nullus b. fuit ex. d. f. dꝰ ꝙ. c. est ꝓmus ad f. hoc ꝙ. evidens ꝙ assumpta quidꝫ ꝙ. n. stat. c. ꝙ est ꝓmus ad e. c. ad d. et ꝑ ꝓam. c. ꝓmus ad e. c. ut ꝑ ꝓam ꝓmus ad c. ad d. ꝑ. e. c. ꝙ. d. erunt ꝓ ad eundꝫ e. qr ꝙ. f. erit ꝓmus ad f. sic ex. d. ꝙ. quare ut ꝓmus est ad e. erit rursus ꝑ ꝓam. f. ꝓmus ad e. ꝙ ꝓponꝫ

1 fuerint duo nulli contrasep̃ diuersꝫ coꝫ ut inferius erunt inde ꝓducti contrasecantes

Sit ꝙ sit quidꝫ ꝓductor sicut ducatur ꝓncipium erit quoꝫ ꝓducti contrasecantes

Fuerit a.c.b. contrasep̃ ducturus ut corpus se ꝓm ꝙ ducat ex. a. quidꝫ c. ex. b. m. d. ꝙ ducat a. m. e. ꝙ ducat b. c.b. m. d. ꝙ ducat f. dico e. c.b. d. ꝙ. c. c. f. ex. c. ꝓmus est. n. ꝑ. 26. c. ꝓmus ad b. ꝙ ꝑ eam erit d. ꝓmꝰ ad a. ꝙ ad e. sicꝫ ꝓstat ꝓmus ꝙ. c. c.b. d. ꝙ sic ꝓmus esse reliquum sic est. n. duoꝝ nullorꝫ a.c.c. ꝓmꝰ ad duos duoꝝ b. c. d. ꝙ. ꝑ. 21. ad. c. ꝓmus ad f. ad reliquum non solum est. c. ꝓmus ad f. ꝑ. ꝙ. ad b. c. ad f. ad a. c. ad e. sicꝫ ꝓmus ꝓductorꝫ in ꝓncipium esse



i fuerint duo nũ ḡsc̄ꝑ quo ex ambobꝫ calculatur ad utrumuꝫ coꝛ et ꝑmus

Tri no ex ambobꝫ calculatis ad utrũuꝫ coꝛ fiũt ꝑmus duo quoꝝ nũ ad

Quem erunt ꝑmi - Sint a.c.b. ḡsc̄ꝑ d°g ꝓ ex eis compostus a.b. ad utrũ coꝛ et ꝑmus nũs
d. nullꝰ com a.b. et alt̄ coꝛ nũdet ꝓ gnũez accꝑre t ſtam et reliqui q̃ nare no ſſt ḡsc̄ ꝑm
ſi ho posit̃ fuerit ꝑ 5° ꝑmi - Ex hiſ ſit ſit a.b. ꝑmus ad utrũ ſuoꝝ exponentiũ aut ſ a.c.b
d° q. a.c.b. ꝑ ḡsc̄ꝑ posito. n. q. 8 nullꝰ utrũ duoꝝ nũdet a.c.b. ſequit ꝑ ac ſtam q̃ nullꝰ ad
compostum ꝓ ad utrũ duoꝝ nũdet a.b. no et ꝑmo. a.b. f. posit̃ erit q̃ eſſ ad utrũ 5 acct m
cos m ſ calculatus ex duob ꝑmo ſidet ad alt̃ ꝑmo quo et ad reliqui no ꝙ calculata me
. n. exposit̃ ex. a.c.b. ꝑmus ad. a. d°g. erit et ꝑmus aliq̃ cos nullꝰ d. qui ꝓcꝑ nullꝰ
. a. nullꝰ com et detractum ho. a. ꝙ magne erit. n. ex. q. a.c.b. ꝑmo ad. a.

nus nullus compostus ab aliquo ꝑmo mutatur - Sit a. quil nullus compostus de
q. aliquo ꝑmus nullꝰ ꝑm q. n. est exposit̃ nullatenus ab aliquo nullo qui ſit b. qui b. ſidet ꝓ
ꝑm ꝙ q̃ dictum ſ a exposit̃ ſit c. qui nullꝰ b. auferꝝ ꝓ amittꝝ ſtam qui ſit b. auferꝝ ꝓ amittꝝ ſtã
nullatenus a. de quo ratiõne ut ꝓbus q̃ 5 quotiens contingit exponit̃ nec ꝙ minor accꝑe qui est
et exponit̃ nullꝰ ſequit ut tm̃ deueniatur ad aliq ꝑmũ aliquis cui impolle ꝙ ãnũ petim nullꝰ m
nus nullus a ꝑmus est a exꝑmo mutatur - Sit a. quil nullus ſimꝫ de ſſe
dico ꝑm et ꝑmus ꝙ exꝑmo nullꝰ q̃ ſi no ꝙ ꝑmus et exposit̃ quil a talis a aliquo nullꝰ ꝓ
missꝫ a. ſit ꝑmus est ꝙ exꝑmo nullatenus q̃ ꝓmit

nus nullus ꝑmus ad omnes que no mutat est ꝑmus - Sit a nullus ꝑmo no nul
. b. d. q. a.c.b. ſ ḡsc̄ꝑ ſi. n. no ſ ḡsc̄ꝑ. c. nullꝰ cui ꝙ m no est q. a. ſit ꝑmus q. c. nullꝰ

i nullus ex duobꝫ ꝓductus ab aliquo ꝑmo mutetur necꝫ est

eundem ꝑmum altum illoꝝ duoꝝ mutat - Sit c. ꝓductus ex. a.c.b. et ſit d. n
ꝑmus qui ponat nullꝰ c. d°g. d. nullꝰ a.c. b. nullꝰ n. c. f. c. ſi 5 no nullꝰ a. et ꝑmo ad
ꝓ ꝑmiſſum c.no. a.c.d. erunt ſ ſtam ꝓnere mꝫm ꝑ 22.q. a. ad d. ſicut c. ad c. ꝑ 2m ꝓ
ſequit ut d. nullꝰ b. ꝑ. a. ſ ꝙ ꝓ m. et ꝑ q. ſue d. nullꝰ a. ſue no nullꝰ nullatenus alt̃ nullꝰ d
manꝫ est q. ſi de nullꝰ nullꝰ ꝓductum ex duob et ſi eod ſidet ꝓmiſſis. ꝓmiſſis quo et alt̃ co

ios ꝑ ꝓmes nullos assignatos ꝛa mos ꝛa ꝓmes - Si manifestũ est

nullꝰ duos quoꝝ mutatis ꝑ mos illius ꝓmes eos mutare - Sint
c.b. nullꝰ q̃ua ꝑ quos ꝓpones nec volumꝰ nullatenus mos ſ 5 ſimꝫ ḡsc̄ꝑ ſ equales inquirꝫ q
ſi a. q̃ ſimant ut doct 2. ſimꝰ maximꝰ d° eos nullus qui ſit c. nullꝰ q. c. a. c.b. ꝑ. d. c.
erunt quos in eod ꝓponat ſ. b. ꝑ 5 quos d° equales inquirꝫ ſm a. ſimꝫ nullꝰ ſ. c. 5 qui ꝓ
nullatenus a.c.b. equales ſit 5 ſi. h. erunt ꝑ 2m ꝓtem 20. c. ad h. ſicut f. ad d. t ſic
. 5. d. c. ſit c. maior. h. reliq q. h. nullꝰ a.c.b. no fiũt c. maximꝰ eos nullus ꝑ vel
est q. ſic erat ſimilr quo ꝓſſimꝰ nullus ꝑ germanꝫ ꝓmes nullus nullus assignatos m mo
semꝫ vñ et mum q. maximꝰ nullꝰ quotꝫ d° nullatenus ſ. m mos ꝓmes eos nullus ut ſ ſm
. a. b. c. ſi quo ꝓponat nec volumꝰ nullos mutemꝫ siue ſimꝫ m eod ꝓponat siue mutatis ſ m
nullus nullꝰ eos omnes vñ ſt quos querimꝰ ꝑ. 23. ho. n. ubi demonſtratum fuit ſ a. unus
omnes ſumatur ut doct. 2. maximꝰ eos d° nullus ſit. q. d. qui nullꝰ eos ꝑ. c. f. 5. qui erit
m eod ꝓponat ꝑ. ig. dico eos et quos querimꝰ aliquis fiat. h. k. l. qui ꝑ. 21. a. b. c. nullatenus
equales ſit ut ꝑ. m. erit q̃ ꝑ 2m ꝓtem 20. a. ad. m. ut h. ad. c. et k. ad. f. vel 5. ad. l.
est 5. d. q. m. q. m nullꝰ a. b. c. no fiet. d. maximꝰ nullus eos quare ſequit ex ꝓb et no
ꝓpoſit fiet. n. d. maximꝰ nullus a. b. c.

nus duo nũ mos nullos siue ꝓmes maior maiore et maior maiore e

multiplicantes nũ ab vnis mutatum ꝓducunt **unde manifestũ est n**

quem duo mutant quotꝫ ab eis mutatum mutare - Sint duo nũ. a. b. minimi q. m
eorũ. c. d. erit q̃ ꝑ ꝓmã ꝓtem. a
ex. a. m. d. et ex. b. m. c. fiat ab nullus qui ſit c. aut dico eũ minimum nullatenus ab a.c.b. alio
ſit. f. q. nullꝰ a.c.b. ꝑ. 5. c. h. et q̃ ꝑ 2m ꝓtem 20. h. ad. 5. ſicut a. ad b. ꝑ. a. ad b. ſicut
ad. d. et ꝑ. ig. et c. ad h. ſicut e. ad f. q̃ et q̃ ꝑ. 21. c. nullꝰ h. e. f. nullatenus maior maiore a
ho. et minimꝰ ſtat d̃m eũ ꝓpoſitũ

ꝛoꝛpositis quotꝫ nus minimus abeis nullatũ repiat **unde manifestũ est nu**

nullus quem quotꝫ nullant quotꝫ abeis nullatũ nullare - Sint ꝓpoſita
. a. b. c. d. ſolo nullatenus minimi nullatenus abeis nullatenus nullatenus ꝑ ab. a.c.b. nullatenus q̃ ſi. a
. b. no et alius q̃. b. ſi a. no nullatenus cum nullo eoꝝ ſit ꝓpoſitũ aut ex hoc manifestũ erit nu

1 minus aliquis alius nullus miet esse nullator pars antiante denotata

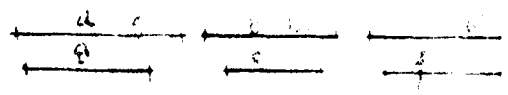
1 nullus aliqua pars quotumqz habeat minabit tpm minus ad aliquam pte diuc

iiiii minus proportionis denotatum habente pres in semine. Et quo maius est q minus minus minatus a quotcz est minus his pres denotatus ab ipso

Iteꝛa mꝰoꝝ ꝺiamꝫ quoꝝ multiplicatione nũ ꝓducit̃ ꝑficialis nũꝰ appellat̃ꝰ qꝫ ꝺuobꝫ latꝫ contin̄et̃ Solidꝰ ꝛieꝰ qꝫ ſub ꝯbꝫ eꝙlibꝫ rectis ꝓcꝛeat̃ Quadratꝰ eſt nũꝰ ſuꝑficialis equalibꝫ latꝫ cõtent̃ꝰ Cubꝫ eſt ſolidus cõſiſtẽs latꝫ Similes ꝺiamꝫ nũꝰ ſuꝑficiales ſiue ſolidi

Tuuꝫ latem ſt̃ ꝓportionalia

3 i mꝰoꝝ quotꝫ cont̃e ꝓportionalitatꝫ duo extremi ſimꝫ contra ſeptimꝫ cõ
ois ꝫ ſliam ꝓportionẽ nũꝰ mꝰoꝝ ꝛe nisi eſt Sint gonꝺe ꝓportes a·b·c· quoꝝ cõm
qꝫ ſint a·b·c· ſiue ꝫ ſ̃ꝑ ꝺ q nũ cadꝫ ꝓportionẽ no repꝛeñt̃ tocadꝫ nũꝰ ſ a gonꝫ ſint ꝺ·e·f



ios quotiẽs contingit ꝓportionaliter ꝙ ꝓportionē data numeros inuenire

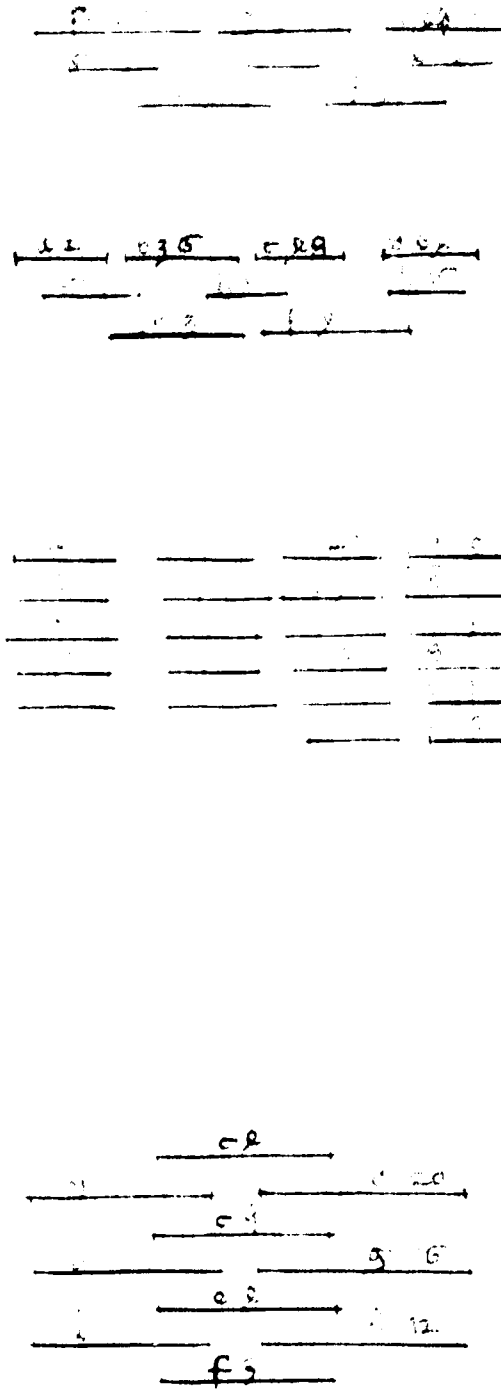
Vbi main est ꝙsi finit & nũ cont ꝓportiones ꝙ earũ agglũ cotient duo erunt quadrata. Et si fuerit ꝙ cũm erunt dabi

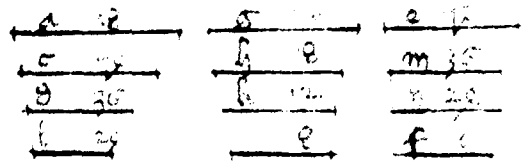
i fuit nũ quotiẽs cõtingit ꝓportionẽ ꝙ fuam ꝓportionẽ agglũ duos cubos cõmos cõtrafẽptos ee nõ cõtingat

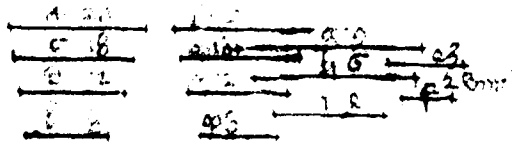
1 nullã assignatam ꝓportionẽ numerus nullus ꝙ plus ꝓportiones contingat ꝓportionẽ inuenire

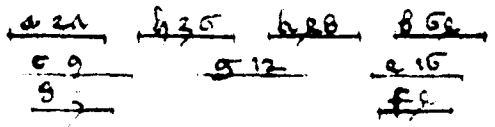
1 unã quotiẽs contingit ꝓportionẽ primus 2m nõ uincit. nullus cubꝰ ultimum uincit

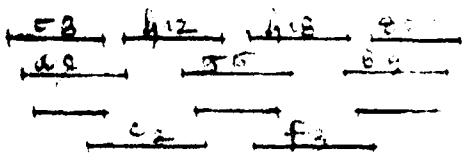
1 unã quotiẽs contingit ꝓportionẽ primus ultimum uincit ipse latus & ipsum uincit

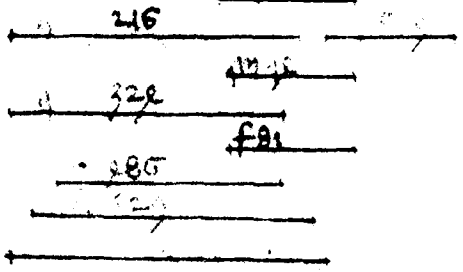








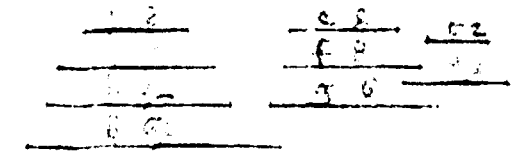
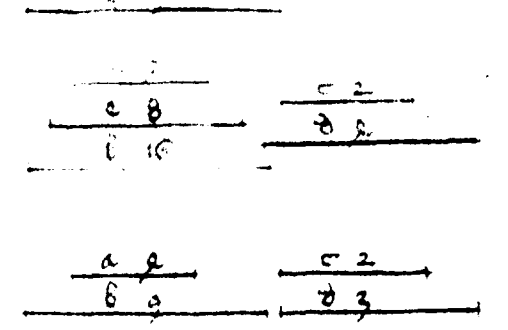
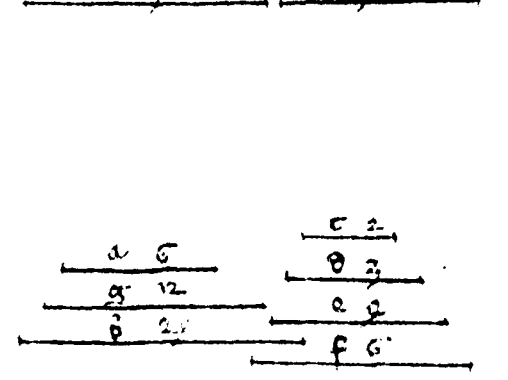
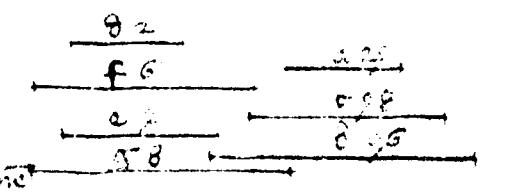
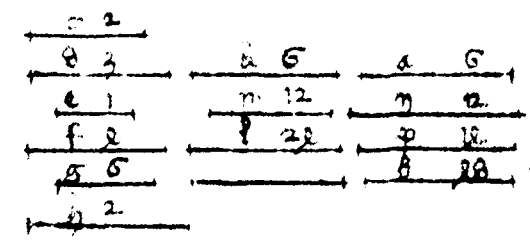


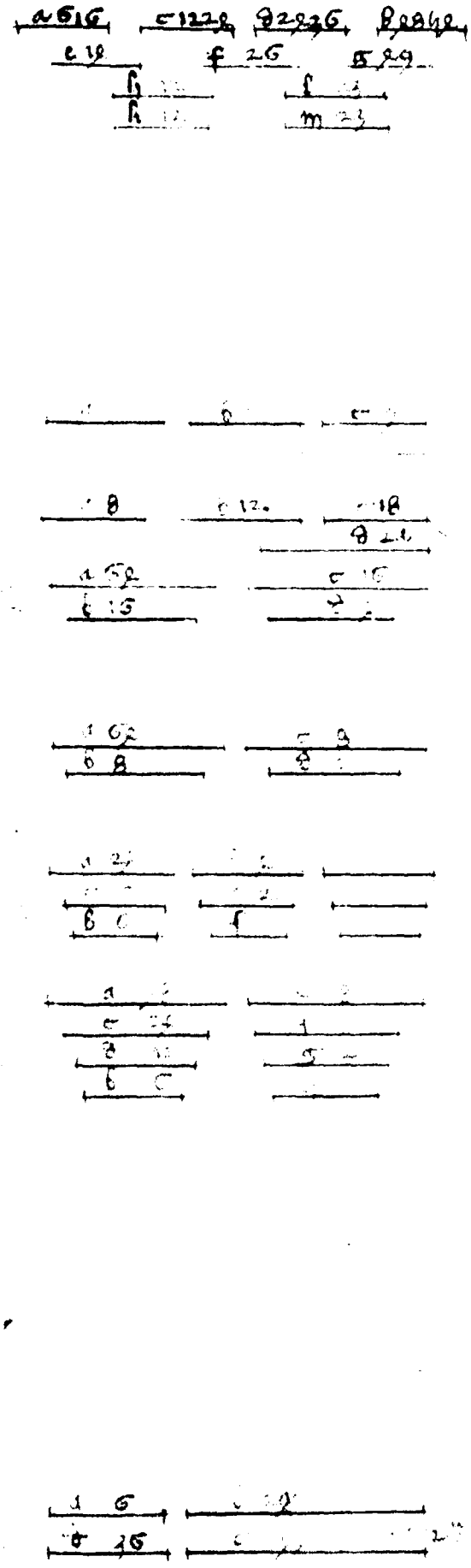


·e· qđ ꝫ ḡrā ꝫ mpoſ̄ ·no· ſolū ꝫ nūbꝰ ·b· ſ̄ ꝫ oīs ꝫ quſ̄ eoꝝ que mḷ rpñ ſequent̄

ī mter duos nūos mū quotꝭ m ꝺ̄ta ꝑpoꝝ ꝫ ꝺ̄ta ducūt totidē mter oīno mū eidē ꝑpoꝝ ꝫ relatiuos cadē ꝛ̄ō ē̄ſt ⁊ Sīt ·a· ꝫ ·b· mē quos cadūt ·c· ꝫ ꝺ· in ꝺ̄ta ꝑpoꝝ ſīt ·e· ꝫ ·f· m ꝺ̄ta ꝑpoꝝ quot̄ ſ̄t ·a· ꝫ ·b· ſīt ·n· ꝫ ·h· ·k· ·l· totidē m ⁊ quot̄ ſ̄t ·a· ꝫ ·b· ꝫ qu mē eoꝝ cadūt ſīgn ꝑpoꝝ ⁊ ꝺ̄ta nūos ꝺ̄ta ꝑpoꝝ m cadē ꝑpoꝝ erūt ꝫ ꝫ ·m· ꝫ ·n· ſīgnū ·a· ad ·b· ſīcut ·c· ad ·f· ⁊ qz rpñ ſ̄t m ſīgnū ꝑpoꝝ m ⁊ ꝫ ·n· ſīgnū ·a· ad ·b· ſīcut ·e

1 quus quadratus nūus alīm quadratū mīet lat⁹ quoz ſtīm latus illius
nūare ꝑbatur ⁊ Si nō latus ſtīm latus illius mīet quadratus nūat
quadratus ⁊ Fiat duo nūa · a · ⁊ · b · quadrata lata eoſ · c · ⁊ · d · d° q ſt · a · nūat · b ⁊ c · quoz nūabit
· d · ⁊ eq ⁊ ſtat · n · q ep · c · m ſe ſt · a · ep · a · quoz nl ſa ſit · b · fiat ⁊ · e · ep · c · m
· ⁊ ꝑ · b · ⁊ q · a · a · e · b · qđ ꝑ ꝑbr m ꝑporne · c · ad · d · ſi ⁊ · a · nūat · b · ꝑ · a · hūq
· c · d · ⁊ ſi nūat · c · ꝑ nūabit · b · qđ ſic ꝑ ſtm contra ꝑbr
1 cubz cubum mīet latus quoz ſtīm lat⁹ alēus mīabit ⁊ Si nō lat⁹ ſtīm
latus alēus mīet cubz mīabit cubum ⁊ Fiat duo nūa · a · ⁊ · b · lata q eoſ · c ·
⁊ · d · d° q ſt · a · nūat · b · c · quoz nūabit · d · ⁊ eq° ducatur · n · c · m ſe ⁊ fiat · e · d · m ſe ⁊ ſtat
· f · cōſtat ⁊ q ep · c · m · e · fiat a ⁊ ep · d · m · f · b · fiat ⁊ ⁊ · ⁊ · ep · c · m · d · cubz ꝑ · d ⁊ ꝑ
· d · c · ⁊ · c · ꝑbr m ꝑporne · c · ad · d · ſic · h · ⁊ · k · qđciat ep · c · m · ⁊ · k · erūt quoz
ꝑ cubz · n · b · qđ ꝑbr m ꝑporne · c · d · erāz ſi · a · nūat · b · ꝑ · a · hūq nūabit · h · quare
· c · d · ⁊ · c · ad · d · ſicut · a · ad · h · qđ ⁊ ꝑma pars ⁊ Cōſta ſicut ꝓpoſ cōſta nā ſi · c ·
· d · a · quoz nūabit · h · q ſi nūet nēc ⁊ ut nūet · b ·
1 nem quadratus quemlīb alīm quadratuz nō mīet latus ſtīm lat⁹ illius
nō mīabit ⁊ Si nō latus ſtīm latus illius nō mīet quadrat⁹ quadratū
illiꝰ nō nūare ep nēcīe cōmunicatur ⁊ hec q ꝓpoſit negantes cōſidē quę aſſir
mationibz quas · ⁊ · ꝓpoſuit oppoſitum ut ſi fiat nūa duo quadrata · a · ⁊ · b · quoꝝ lata · c · ⁊ · d ·
ſint nō nūat · b · c · quoz nō nūabit · d · ⁊ eq° ut ſi · c · nō nūat · d · nc · a · b ⁊ ſit · n · p° ut · a · nō
nūat · b · ſi ergo · c · nūabit · d · ꝑ quam ꝓpoſitionem · ⁊ · hūq ⁊ · a · nūabit · b · qđ ⁊ ꝓpoſitū ꝑ m ſic ꝑ
poſitū ⁊ Eodem ſic ſtē ut · c · nō nūet · d · ergo ſi · a · nūat · b · ꝑ ꝑma ꝓpoſitionē · nēc ⁊ ut · c · nūet
· nēc ⁊ ſic nūet ꝑpm q nō nūat qđ ⁊ impoſſ ⁊ Quadmom nēc ⁊ ꝓpoſitiones negantes oppoſitas
aſſirmabz quas · ⁊ · demonſtrauit ꝓpoſitā ſic quia nēc ⁊ eas negantes quę oppoſitę illis aſſirmabz as
ſumpſa ꝓpoſitione demonſtrauit quodam⁹ ut ſi cubus nō nūat cubum nc latus eius nūabit latus ſi
· d · quoz ſi latus dmi cubi nō nūat latus alēus nc ꝑ cubus nūabit alēum cubi ⁊ de
mōſtrauit & hoc ꝑ ſtm ſic ꝑ deſtructionē negātis antecētis ſicut qđ ꝓpoſitū ⁊ ꝑ · ⁊ · ꝓpoſitio nō
· ⁊ hoc qđ ꝓpoſitū ⁊ ꝑpm ⁊ de ſic ꝓcedit
1 duo nūi ſuꝑficiales ſīūt ſimiles nēcīe eſt ꝛm nūuz eis ſub ꝓpoſitę ꝗtitatis
teſſe cuiuz ꝓpoſitio ⁊ Vnius nūi ad altīum ē ſimiles ꝟelut ⁊ Vnius lateris ſui ad
latus alterius ſe reſpiciēs ꝓpoſitio ⁊ Fiant duo nūi ſuꝑficiales · a · ⁊ · b · ⁊ ſimiles dico q
nec ꝓpoſitio cuiuz ⁊ Vnius nūus m qđa ꝓpoſitio la
ta · d · ſit · d · lata uc · b · ſint · e · ⁊ · f · cuiuz ep ꝗſtione ꝓpoſitū nūoꝝ ſimiliū · c · ad
· e · ſit · f · q ſtat ad q ep · c · m · d · fiat · a · ⁊ ep · c · m · f · fiat · b · ⁊ q fiat · g · ep · c · m · d · ⁊ ꝓp
no · ſit · ad · g · ſicut · c · ad · e · ⁊ ꝓpoſitio cuius · g · ad · b · ſicut · d · ad · f · quare · a · ad · g · ſicut · g · ad · b ·
ex ꝓpoſitione ⁊ ꝓpoſitio nēcīe ꝓpoſitionis mēbris mēt · a · ⁊ · b · qđ ⁊ ꝓpm ⁊ Cōuerſim ꝑ q ſic · a · ad · b · ꝓpoſitio
· c · ſit · d · ad · g · duplicata ⁊ ſit ad illi que eſt · e · ad · e ·
1 ꝟ contraz ꝓpoſitę ꝛm nūus duobz nūis nequit illi duo nūi ſuꝑficiales ſimiles
ſi fieri poſſit ꝓpoſitio ut ſi m d · a · ⁊ · b · ſic · c · ſub contraria ꝓpoſitę q ſtruas · a · ⁊ · b · erūt ſi
ſuꝑficiales ſint · n · c ⁊ · d · m mi m ꝓporne qua cōtinuant · a · o · b · qui ꝓ · 21 · a · nūabit me
· f · ⁊ q camdy · c · ⁊ · b · equalis ⁊ ſic ꝟ · g · erūt g · i · ⁊ · b · ꝓpoſitio ⁊ ſuꝑficies
· ⁊ ep · c · m · f · ſic id erit ꝓ ꝛm ꝓpoſitio · 20 · a · d · ad · e · ſicut · f · ad · g · ꝓpoſitio
· ad · b · ſuꝑficies ꝛm ⁊ hoc ⁊ ꝓbatur ꝑ hanc ſubz · a · ⁊ · b · ⁊ ſimiles ꝓ · 18 · ⁊ · 19 · a · ⁊ ꝑ hanc
ꝓpoſitio · a · b · ſint cuiuſ ꝓporles m ꝓporne · d · ad · e · m ⁊ ⁊ numerū · a · ⁊ · c · ꝟ · f · ⁊ · c · ⁊
b · ſuꝑficies ·
1 ſīūt duo nūi ſolidi ⁊ ſimiles nēcīe eſt eis duos nūos ſi contraz ꝓpoſitę m
teſſe cuiuz ꝓpoſitio Vnius ſolidi ad alt⁹ ē ſimiles ꝟelut cuiuſ ꝗtitatis ſui lateris ad
latus alterius reſpiciens ſe ꝓpoſitę ꝓpoſitio ⁊ Fiant duo nūi · a · ⁊ · b · ſolidi ⁊ ſimiles dico q
nec ꝓpoſitio cadunt duo nūi m contra ꝓpoſitę
· d · lata · e · d · e · lata uc · b · ſint · f · g · h · erūt ep conſtructionē diffinitionē nūoꝝ ſimiliū · e ·
· d · ſicut · e · ad · h · ſic q ep · e · n · d · k · ⁊ ep · f · m · g · l · erūt ep diffinitionē · k · l ·



ſ.ꝛ.ſ. ꝑ ſlies ſ̄t ꝑ.b.i mꝰ ꝺnus [illegible] mꝫ cos mꝫ ꝺnus [illegible] ſ [illegible] ꝺ.f. [illegible] m·
eſt ꝛ ꝙ ꝙ·c· m·k ſ̄t·a· ꝛ ꝙ· [illegible] ſ̄t·b· ſ ꝯ ꝙ· c· [illegible] m· ꝛ·l· ſ [illegible] ꝛ·ꝑ· [illegible]
·ꝺ·a· [illegible] ſcuꝫ·h· ꝺm ꝛ· [illegible] ſcuꝫ·l· ꝺ· [illegible] ſ̄t·a· ꝑ·ſ̄t cont ꝯ ꝓpor·les m ꝓpor
·c· ad·f· ꝛ ꝙ ꝙ·cuſ̄ ꝑ· ad·b· ſcuꝫ·c· ad·h· ꝛ ꝯ ſcuꝫ ad·f· ſequ ꝯ·c· nul· a·
ſm̄t cont ꝯ ꝓpor·les ſ ꝓpor mꝫ·c· ad·f· ꝛ ꝙ mꝫ·b· ꝛ·a· ꝺuo nul· m· ꝛ·ꝑ· m̄edꝰ m
ſuoꝝ ladꝝ mꝫ poſſꝫ ꝙ ꝓpoꝝ = Cont ꝯ a· ꝑ· ꝙ ꝓpor· a· ad·b· ſ̄t ꝑ ꝺiſſ mꝫ ſcuꝫ·a· ad·
ꝯplicat ꝙ ꝙ eſt cad illi ꝙ eſt·c· ad·f·

1 cib ꝑ ꝓpoꝝ cont ꝯ ꝺuo nūꝰ nūciaꝫ quꝫ ꝺuo nūꝰ ſolidi ſ̄t aꝫ ſlies

hꝫ cōſa ꝑmiſſa ꝑ m̄ſſe ut ſ mꝫ·a· ꝛ·b· ſm̄t ꝺuo nūꝰ ꝺ·ꝛ·c· m̄edꝰ m ꝺ ꝯ ꝓpor·
cr m̄t·a· ꝛ·b· ſcuꝫ ꝛ ſmiles ſm̄an ꝯ·n·ꝫ· nūl m cad ꝓpor·nt m m ꝙ ꝯ ꝓpor·les ꝙ ſm̄t·c·f·
cr m̄ꝫ ꝑ·a· hm̄ꝫ·c·ꝛ·ꝫ· ſ̄ꝑ ſlies ꝛ ſlies ſm̄t ꝫ cad·c·h·ꝛ·k· ad·l·ꝛ·m· cad·ꝫ· cr ꝑ·
·b·a· ad·f· ſcuꝫ·n· ad·l· a ſcuꝫ·k· ad·m· mam ꝯ a ep ꝫ hm̄ꝫ ꝙ·c·ꝛ·ꝫ· ſ ꝫ ſ̄ep ꝯ ꝫ·ꝫ·a·
ſua ꝓpor·nt m m ꝯ ꝛ ꝙ ꝑ equam ꝓpor ꝯ ſ·a· ad·d·ꝛ·c· ad·b· ſcuꝫ·c· ad·ꝫ· ſ ꝫ ep·a· ad·
cr·a·ꝛ·b· equaliꝫ ad ſ̄t ꝫ m· ſcuꝫ·c· ad·b· cꝫ ꝙ ad ſ̄t ꝫ·ꝑ· ꝺ ꝫ ep·h· m·k· ſ̄t·c· ꝛ ep·c·
ſ̄t·a· ſequ ꝯ ꝑ ꝺiſſ nt·a· ſ̄t ſolidꝰ cuꝰ ꝫ liꝺ·h·k·h· ſmiles ꝙ ep·l· m·m· ſ̄t·ꝫ· ꝛ ep·ꝫ·
·ꝑ·b· ſequ ꝯ ut·b· ſ̄t ſolidꝰ ꝛ cuꝰ cad·l· m· ꝑ· ipoꝺ ꝛ ꝯ ſlies ſ̄t ꝙ ſtribꝫ ꝙ ep·ꝫ· m·n·
·ꝺ· ꝛ ex cos m·ꝑ·h·ut·b· ꝯ ꝑ·ib·a·n· ad·ꝑ· ſcuꝫ·ꝺ·ad·b· ꝛ ꝙ cr ut ſcuꝫ·h· ad·l· ꝛ·k·
ꝙ ꝺiſſ nes mam ꝯ z·a·ꝛ·b· ꝯ ſlies ꝙ ꝓpoꝝ

1 tiz nūoꝝ cont ꝯ ꝓpoꝝ ꝑmus quaꝺrat ꝯ fiūt ꝫ quoꝝ quaꝺratꝰ eſſe

·z· nūl cont ꝯ ꝓpor les ·a·b·c· ſ ꝫ quaꝺratus ·a· ꝺco ꝙ·c· eſt ꝯ quaꝺratus ſ̄·n· ꝑ·a·
ſlies ꝛ ſmiles Cum ꝫ·a· ſ̄t quaꝺratus ꝙ ꝓpoſ ꝯ quoꝝ·c· quaꝺratus

1 ꝙ· nūoꝝ ꝺtꝰ ꝓpoꝝ ꝑmus fiūt cuꝺiz ꝫ cuꝺum eſſe nōtꝰ eſt

cont ꝯ ꝓpor les ·a·b·c·ꝺ· ſ ꝫ·k· cubus ꝺ· ꝙ·ꝺ· eſt ꝯ cubus ꝙ ſtat·n· ꝑ ib· ꝙ·a·ꝛ·ꝺ· ſ̄ ſolꝫ
ſmiles ꝛ qꝫ·a· eſt cubus ꝙ ꝓpoſ ꝯ ꝛ·ꝺ· cuꝺ bꝫ ꝓpoꝝ

1 ꝺuoꝝ nūoꝝ quoꝝ ꝓpoꝝ ſiaūt quaꝺrati ad ꝯ fiūt ꝺnus quaꝺratus alt ꝫ quoꝝ quaꝺratiz ꝯ

Cont ꝺuo nūl·a·ꝛ·b· m ꝓpor·nt ꝺuoꝝ quaꝺratoꝝ qui ſ̄t·c·ꝛ·ꝙ·ſ·
qꝫ·a·ſ̄t·b· quaꝺratus ꝺco reliqui ꝯ quaꝺratꝰ ·c·n·c·ꝛ·ꝺ· ſm̄t quaꝺrati ſequ ꝫ·ꝺ· cos ꝫ
ſlies ꝛ ſlies ꝝ ꝑ·ib· cadz ꝺnus mꝫ cos m ꝛ ꝓpor ꝯ ſ̄t ꝑ·ꝙ· mꝫ·a·ꝛ·b· ꝑ·ꝛ·o·ſ
ſ

1 ꝺuoꝝ nūoꝝ quoꝝ ꝓpoꝝ ad alt ꝫ ſiaūt caiꝺ ad cuꝺum altiuſ fiūt cu

ꝺz altiuꝫ cuꝺuꝫ ꝯ

Cont ꝺuo nūl·a·ꝛ·b· m ꝓpor nt ꝺuoꝝ cuꝺoꝝ quꝫ ſm̄t·c·ꝛ·ꝙ·ꝺ·
qꝫ·a·ſ̄t·b· cubus ꝺ· reliqui ꝯ cubꝰ nōtꝰ quippe eſt ꝙ·c·ꝛ·ꝺ· ſm̄t ſolꝺi ꝛ ſmiles quippe cuꝺ
ꝺz ſ̄ ſolꝺi ꝛ ſmiles ꝛ ꝫ ꝑ·ib· mꝫ ipoꝺ ꝯ ꝺuo mediꝰ m ꝛ ꝓpor ꝯ totiꝺ ꝫ ꝙ·ꝺ· cad
·a·ꝛ·b· iz ꝑ·ꝛi· ꝑ qꝫ ꝺuct

uoꝝ ſuꝑficialiū ſimiliū eſt ꝓpoꝝ ꝺnus ad altꝝ ſicut qꝫ ꝓpoꝝ ad ꝯ

·a·ꝛ·b· ſuꝑficies ꝛ ſlies ꝙ ꝙ ꝺnus ad altꝝ eſt ꝓpoꝝ ſicut quaꝺrati ad quaꝺratum eſt· h· ad
mꝫ cos ꝺnus nūus mediꝰ m ꝛ ꝓpor ꝯ ſ̄t·c· ſuꝑficies ꝛ ꝫ ꝺz m m ꝓpor nt cos
·ꝺ·c·f· ꝯ ꝙ cor m ꝫ·ꝺ·ꝛ·f· quaꝺrat ꝛ oz ꝙ equam ꝓpor ꝯ ꝓpoꝝ ·a· ad·b· ſcuꝫ ꝺ· ſ·f·

nūiz ꝺuoꝝ ſolꝺoꝝ ſimiliuz eſt ꝓpoꝝ ꝺnus ad altꝝ ſicut alicuꝰ

cuꝺi ad alig cuꝺuꝫ

Cont ·a·ꝛ·b· ſolꝺi ſmiles ꝺ· ꝙ ꝓpor ꝺnus cos ꝺ· ad altꝝ ꝛ ſicut
cuꝺi ad alig altꝝ cuꝺum ſ̄t quib mꝫ cos ꝑ·ib· ꝺuo nūl mediꝰ ſ ꝙ ꝓpor ꝯ ꝙ ſm̄t·c·ꝛ·ꝺ·
cos ꝓpor nt ſmiliꝫ·ꝙ· m m qui ſ̄t·c·f·ꝙ·ꝛ· ꝺuoꝝ ꝯpoꝝ ·a·ꝛ·b· ſm̄t cuꝺi ꝑ m m ꝯ ꝛ
ꝙ ꝓpor ꝯ ſm̄t ·a· ad·b· ſcuꝫ·c· ad·h· liquet ꝓpoꝝ

ar eſt minus qm p̄ ly duo equalia dīuꝺi ſupat minus eſt qm
equalia dīuꝺi no ꝑtest addiz ſuꝑ ꝑm ꝺmitare Quare pan eſt q
cuncti pares mīantes unꝫbz eum uicibz mīant Quare par
impar eſt quē pares cum mīantes quadi ꝑibz quadiꝫ unꝫbz
cum ꝺcibz mīatur ſupar impar eſt quem cuncti pares cum mia
tes unꝫbz uicibz mīant Perfectus mīnus appellatur qui omibz ꝑtibz ſuis q
bz mīatur eſt equalis Habundās dicitur qui omibz ꝑtibz ſuis maior eſt Di
minutus ꝙ qm maior eſt

1 ſiūt duo nūi ſuꝑficiales ſmiles qm ex ductu alcius in alīm ꝑducī

nūiz quaꝺratum ꝯ ꝙ eſt

Cont ·a·ꝛ·b· ſuꝑficies ſmiles ex quoꝝ multiplicatione
ꝑducat·c· ꝺ·c· ꝛ quaꝺratum ꝓducat·n·b· ex ·a· m ſe cuiz ꝑ·b·a·ꝺ·ad·c· ſ̄t·c· ad·b·
ex ·a·ꝛ·b· cadit ꝺnus mediꝰ ꝫ ꝙ ꝓpoꝝ ꝑ·ꝙ· ſequi ꝑ·ib· cuiꝰ ut ꝺnus quoꝝ cad

·ꝺ·c·

1 co ductu alcius ny alius tetragonus ꝓducatur dico quilz inu simplices ſ
ſimiles Exhis itaz patens eſt q ſi tetragonus m tetragonu ducat qm
co eis ꝓducetur tetragonu ee Si n° co ductu tetragonu m nūz aliq tetragonu
ꝓducat 1m nūz aliquem tetragonū ee Pre oz ſi co ductu tetragonu ny nūz d
quary no tetragonus ꝓducatur cum nūz aliq no tetragonū ee Si no tetragon
1 nūz aliquē no tetragonu ducatur q mde ꝓducē non tetragonū ee nece ꝫ

1 cubz m ſeipm ductus qm mde ꝓducetur erit cubz

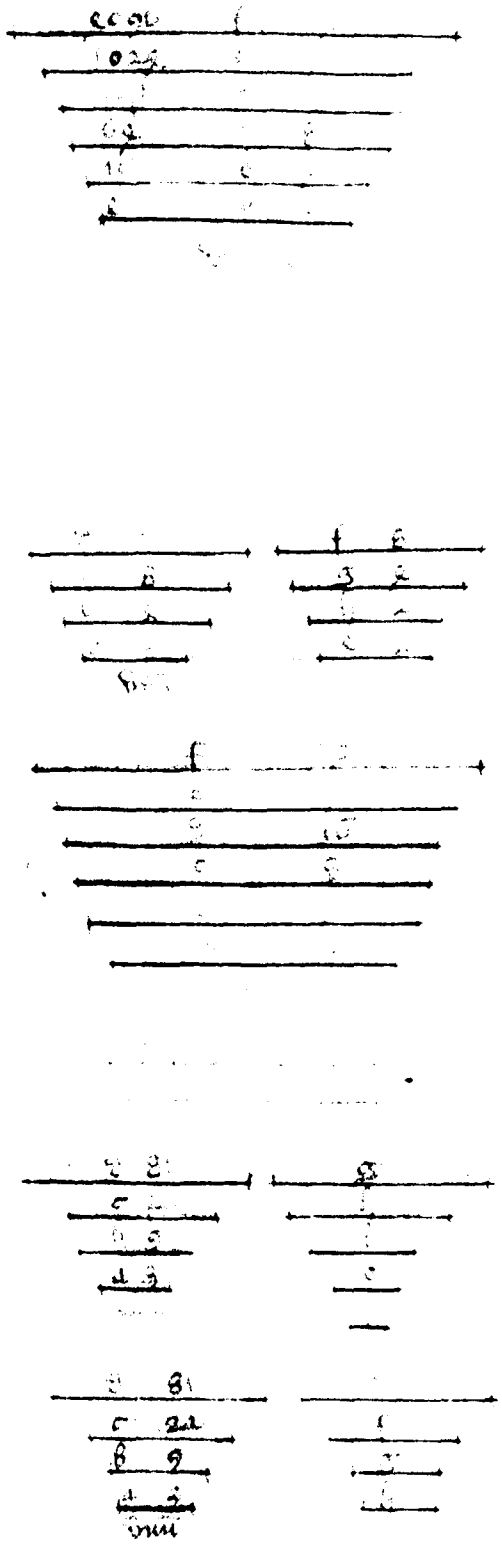
1 cubz m alīu cubiū ductus qm mde ꝓducetur erit cubz

1 Omnis cubz ny nūz alīu ductus ſint oz ꝓductus cubz m co ducte eſt nū
rum cubiū ee nece eſt Unde manifm eſt q co ductu cubi ny no cubi ꝓduc
no cubz Ductoz cuboꝝ ny nūoꝝ aliq ſi ſint qm mde ꝓducitur no cubz ny quem
ex ſe ductus ſint nece eſt no ee cubum

1 co ductu cuiuſcq nū ny ſe ipm cubz ꝓducatur ei esse cubū nō opabitur

1 nūus compoꝫ ny qlz nūoꝝ oppoſitu ducat q̄m ꝓdu ee ſolidꝰ ee cubum

1 fierunt nū abūtē contē ꝓxles tertius ab vnitate erit quadratus ac de
niceps suo semp numero uel alio semp ommisso Quartus u° ab vnitate cubz ac deniceps
duobz semp numeris Item oz septimus ab vnitate est quadratus cubicus ac de
niceps vl semp numeris quadratus cubicus conte sequitur



m hue quadratus m illis a quor ebmissione sr̃ pos quadratus ex ep hui⁹ ꝑ ꝛ ꝛ cubicus
ꝛa quinc quadrata cubi constat ꝙ tom

1 nūs quotꝫ ab vnitate contin⁹ ꝓpoꝛc̃ depositas vnitate sequ̾ quadrat
fiūt ꝛeñ quoz omes erunt quadrati. Si u⁹ qu vnitate sequ̾ fiūt cubi
ꝛeñ quoz omes erunt cubi. Tm̃ ꝗ ꝑs contin⁹ ꝓpoꝛc̃ ab vnitate sit ꝛ quadratus ꝙ
ꝛc quadratus a sit ip cubus ꝙ omes ꝛc cubicus. b. n. ꝙ sit ꝛc quadratum ꝙ ꝑmissum 12 ꝙ a. ab
sequat b. ad c. ꝙ ad b. sequ̾ c. ꝛc quadratum ꝙ ex quib⁹ a. ꝛ 20 ꝑtes angule de sequentib⁹
ꝙ cod ꝙ me ꝙdabis ꝙ ꝙ ꝑmit. Rursꝫ a sit a. n. b. fiat ex a. in se fiat ꝛ a cubus ꝛc ꝙ m
hui⁹ ꝛpe quor cubus. c. ut a sit ꝛc cubꝰ ꝙ ꝑmissum ita ꝙ 24. b. d. omes ꝙ sequentes cubos ꝛc ꝙ
est. n. a. ad b. sicut c. ad d. ꝙ quor angule solid ex ip⁹ a. in quor cubi ꝙ. n. a. b. c. d. ꝙ
cubi quor ꝙ. ꝙ ꝛc sup̃ ꝙ ꝑmissum.

1 nūs quotꝫ ab vnitate contin⁹ ꝓpoꝛc̃ dispo⁹ vnitate sequ̾ quadratus
fierit nō erit alioꝛ quisq̃ quadratus exceptis ab vnitate ꝙ ꝛ huius qui de
ceps tetragonꝰ reperitur. Si u⁹ ab vnitate nō fiāt cubi nullus eoꝝ cubꝰ erit
exceptis ab vnitate ꝙ ꝛ deinceps huius qui semꝰ duoꝝ mēsionis formant cubi
hec ex ꝓpoꝛc̃ ꝑs ꝑmissi ꝛ ꝑtem ꝙ ꝛ ꝑtes ꝑm ex b. a ꝛc omes minores ꝛc
tos omes quor quisq̃ ab vnitate sux ꝛ quemlibet eius mēsiꝰ vnitate ꝛc cubicos. Tm̃ ꝛ ab vn
qui ꝙ contin⁹ ꝓpoꝛc̃ nō sit a quadratus a. si nō cubus ꝙ ex omib⁹ nullꝰ ꝛc quadratus a cubicus
missi quos supponit b. n. quis alius ponatur quadratus sit ex a. b. a ꝛc quadratum. ꝙ si cubus
ꝑ. 24. emissi a ꝛc cubꝰ quor primꝰ a. erit quotꝫ ꝙ ꝛc ꝙ ꝙ ꝙ

1 nūs quotꝫ ab vnitate dispo⁹ contin⁹ ꝓpoꝛc̃ aliquis nūs ꝑmus vnitatem
nūcꝛ eius quoz qui vnitate sequitur nūcꝛ nūc est. Tm̃ nullus ab b. ꝛc ꝙ
ponatur nūbre ꝛpm̃ b. ꝙ ꝙ nūbre a. nā si nō erit ab ꝛpm̃ ꝑmus ꝙ ꝛ 2. ꝛc ꝛ ex ꝙ a. in ꝛ
b. sequ̾ ex 26. emissi ut ꝛpe quor sit ꝑmus ab b. ꝙ ꝛ ab b. ꝙ ab c. sequ̾ ꝛpm̃ ꝛc ex ꝙ ꝙ 24. emissi
ꝙ ex a. in b. fiet c. ꝛ ex cod in c. fiet d. nō ꝙ nūbre ꝙ ꝙ ꝛ ab ꝛpm̃ ꝑmus ꝙ erit ꝛ ꝛpoꝛc̃ ꝛ
alie ꝙ sit c. ꝑmus si nō nūbre a. ꝑmus ex ab ꝛpm̃ ꝙ ꝛ 2. ꝛ ita ꝙ 24. emissi erunt nūi in ꝛ
ꝙ ab c. ex ꝙ ꝛpoꝛc̃ nūbre b. sit ut ꝙ. ꝙ. ostensū ꝛ ꝙ ex a. in ꝛ fiet d. ꝙ ꝙ ꝙ ꝙ
ꝛ c. ꝙ ꝙ ꝙ 24. emissi c. nūbre c. ꝛ sit ut ꝙ. ꝙ ꝛ ꝙ ex a. in b. fiet c. ꝛ sequ̾ quor ꝙ ꝙ ꝛ
ut c. nūbre b. ꝛ ꝙ ꝙ ꝙ

1 positus fuit minus tminꝰ que minant p assigna-

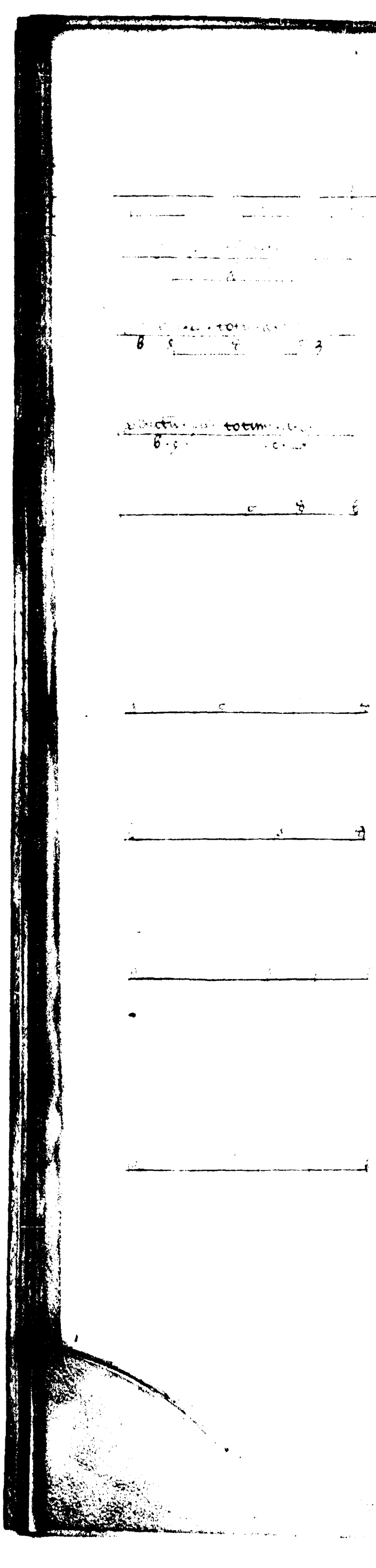
ti no minabit cum aliquis alius primus pe illos assignatos

1 quotiꝫ min continue proles ꝑ suam proꝛ me fiunt mm quoꝫ alig illoꝛ

migt alti minoꝛ illius proꝛ me est quotiensdabilis

1 fiunt quotiꝫ min contᵉ proles in sua proꝛ me minꝰ quoꝫ coꝛ ad compom

coꝛ aliquis primus ee nullo completur



Um fiunt minus in duo equalia duplus ei qz alius minus 5° ppoñ

Adiunctus qđ fit ex ductu totius compositi in adiunctum q quadrato

medietatis eqlium est quadrato opositi ex duplo et quadrato

Um minus in duo dupletur qđ fit ex toto in se et

eo qđ ex altero duplentur in se est eqli ei qđ fit ex toto in eundem bis q

o qđ ex altero in se

Um fuerint minus in duo equalia duplus ei qz equalis ad 4 ppoñ

Um duplentur additus additus quadratus totius ex eis equalis est qui

plo eius qđ fit ex priori in additum cum quadrato alterius

fiunt minus in duo equalia duos in equalia duplus quadrata au

in equalium inter acepta duplum sit quadrato medietatis et ex ea

cuius quo maior portio extat minorem ter accepit

nnn fuerit minus ry duo equalia quadratus totius compon̄ q quadrato ipsius q quadrato compositi

uiny aliquem ita diuidere ut quadratum totius cum rectangulo ipsius contineatur equum

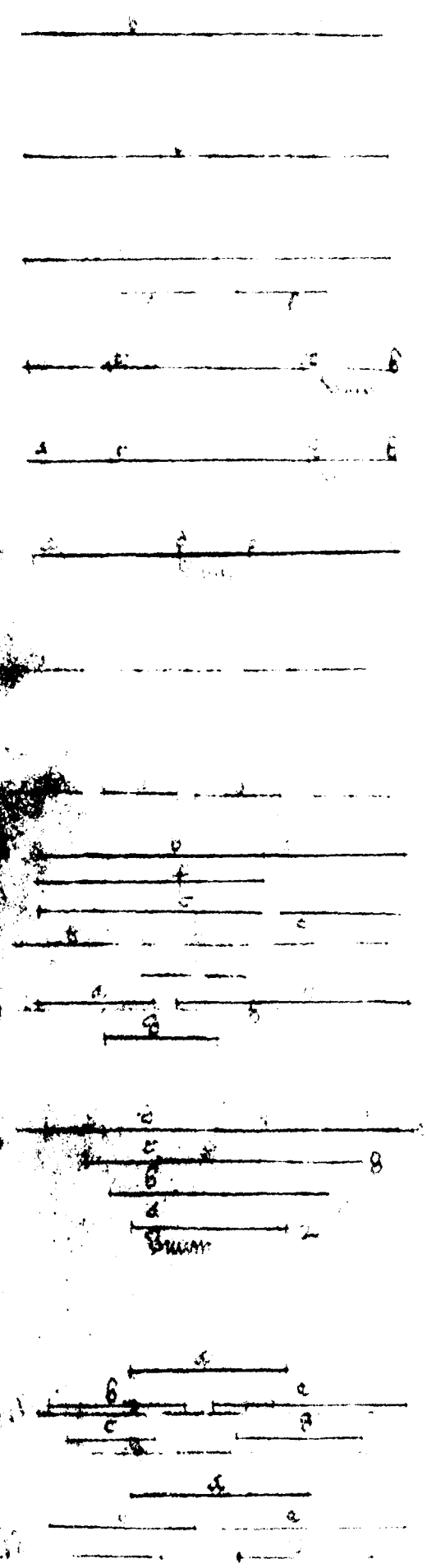
l fuerint duo nūa quorum quilibet datus est primus eorum tantum

l quotlz numerorum primus datus fuerit reliqui dati erunt

tantum et ultimus

l quotlz trium numerorum primus datus fuerit reliqui dati erunt

l calculentur quotlz nūi primi sint quorum quilibet datus est primus



1 mii impares mio pares coalescent totus quoz coaciatus ex eis et par

Fie quia mibr. a-b-c-d. impar fiet ex positum ex eis et pem dempta n. aliqui bmtis

astat residuos et pares et qz ille bmtes dempte equales eisdem fiunt mib zps astat pom

1 mii impares mio impares coalescentia totum quoz ex eis coalescat

impares et Fie quia mibr. a-b-c. impar fiet pom ex eis existentibus et impari et n. pb

existentibus ex q. a-b. par et z. c. dempta bmtate est tam et p aliquem ex q ab c. dempta bmte. pa

dispares impis etas astat ex impari et impari

1 mio pari minus pari derelinquitur relquus et par Fie ex. a. par a quo detr

-b. qui quoz sit par z residuus sit c. d. e. et par et sit n-b. metas. 1. aliquis sit metas.

detracto qz. c-d. de d sit relquus f. et p. 12. b-c. ad f. sicut a. ad d. qui f. est metas. c

-c. est par qz ppm

1 anio pari detrahatur impar relquus et par Fie ab. nidus impar ad det

-bc. qui sit impar dico relquus qui z. ac. et pem detrahat n. ab itez dico nidus. ab.

bmtis nec sit. dd. et z quoz residuoz ut qui sit. ad. et. dc. p bmtem etas astat. ac. et par

1 anio impari minori pariem subtrahas qm relinquatur impar qz

Fie. ab. anio detrahatur. ac. qui sit par dico. cb. residui et impem subtrahatur n. ab. ac. bmtis

qz. ab. p et qz. ac. est impar et p. 24. dd. qui z p qz et. dc. ast bmtis sit. cd. et impem qz ppm

1 anio pari imparem collis qm relinquatur impar est Fie. ab. par aq

collatur. ac. qui sit impar dico. cd. residui et impem subtrahatur. n. ab. ac. bmtis que

cd. et qz. ab. par et z p. 24. dd. quoz et

l ꝺe 2ꝰ ꝛtꝫ ultimo mꝺo cõtinue ꝓportionalꝭ equale ꝑ ꝺeniatur qꝫ
eſt rectiqꝫꝭ 2ꝫ ad ꝓmꝫ tantum e rectiqꝫꝭ ſtrum ad concurſum ex rectis
ꝓcedentibꝫ nõ oꝑtet. Tunc ꝙꝫ ꝓportes .a.b.c.ꝺ. ef.gh. ꝺeniatur ꝛ ꝺe .cꝺ. 2 .ꝛ
.ab. nu ſit .ck. 2 ꝺe .gh. qm ſit .gf. ꝺ' tunc ꝫ ꝑtes .l.
. . . . . ad ꝙꝫ ex. ef. gꝺ. 2 ad ſumatur ex .gh. equalis .ef. nu ſit .gm. cuius
.cꝺ. nu ſit .gm. cuꝛ ꝙꝫ .lm. equalis .lab. manꝫ eſt ꝫ ꝓ 12 q. g ſit .gr. ad .gm. ſicut .gm. ad
.x. et .ũ. reſiduꝫ .cꝺ. m. reſiduꝫ ſicut .gh. ad .gm. idꝛo ꝛ ſicut ef. ad .cꝺ. ſmꝫ mo.
mo et .mn. cꝺ. lm. ſicut .cꝺ. ad .ab. ꝑ mutꝫ q. erit .mn. ad .ef. 2 .mn. ad .cꝺ. ſic 2 .
ad .ꝺ. ꝛtꝫ ꝓꝫ .a. et .lh. ꝙꝫ ſicut ex .q m. 2 mn. 2 .nc. ad ꝛꝫ ex .ef. cꝺ. 2
ab. ſicut .qm. ad .cꝺ. ꝺa ſicut .ab. cꝺ. ad .gꝺ. ꝙꝫ

uny corpꝰ fuerint mꝫ ad ũitate cõtinue ꝺupli qꝫ cõtinue mꝰ
ti fiant mꝫ ꝓmꝫ exterminꝰ cor ꝫ aſſignatꝫ ex eis ductꝰ ꝑ
ꝺucit mꝫ ꝑſtm. Tunc ab ũitate ꝙꝫ ꝺupli .a.b.c.ꝺ. ex eis 2 ũitate colligatꝰ
. . . . . mꝫ quem .e. multiplicet .ꝺ. 2 ꝓducit .f. ꝙꝫ ꝺuc .fg. ꝛ nullꝰ
. . . . . ſumat .ghl. ꝙꝫ ꝺupli ꝺ. e. ut ex ſint .ghl. q ex ꝑ ꝙꝫ ꝺupli ad ũitate ſupꝛa cꝛ
. . . . . ꝓ ꝛtꝫ ꝓꝫ .a. ad .l. ꝑ mutꝫ ꝙꝫ .l. ad .a. ꝑ mutꝫ ꝙꝫ .a. ad .m. ꝑ mutꝫ ꝙꝫ .m. ad .gꝫ. 2 .l. ex .a. m. a. gruet .g. nil ſit .fg
. . . . . 2 ſit .e. ex .a. 2 ꝓportionꝫ .fg. ꝺupli ex .ghl. ꝙꝫ ꝺupli .ghl. ꝙꝫ ꝺupli ex .a.b.c.ꝺ. ſic ꝓꝫ ꝺeniatur .f
. . . . . ex .a.b.c.ꝺ. 2 ſmatur ex .ghl. ꝙꝫ ꝺupli ex .a.b.c.ꝺ. 2 .fg. qꝫ ꝓꝫ ꝺeniatur .g
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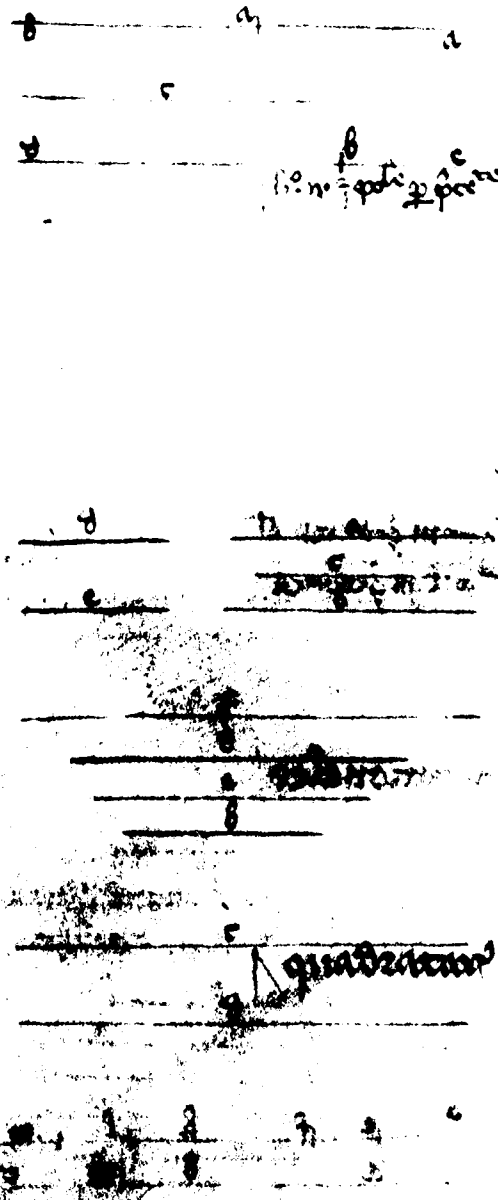
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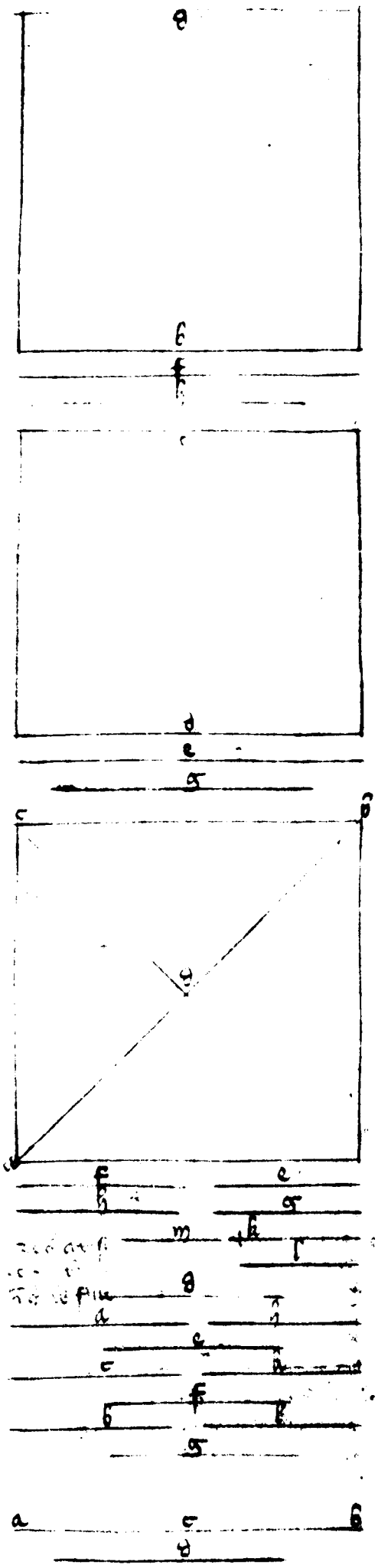
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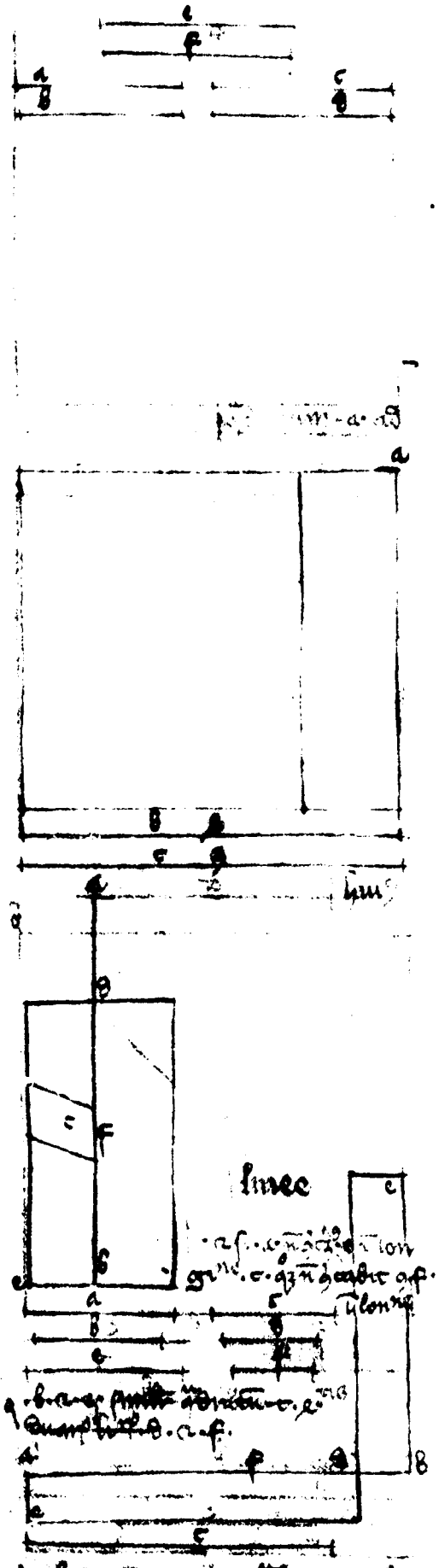
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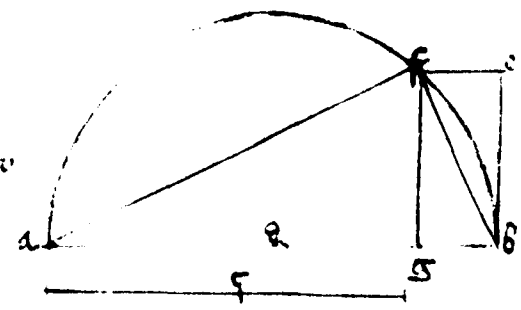
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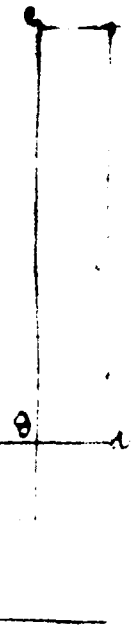

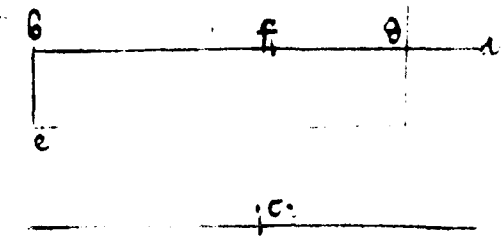
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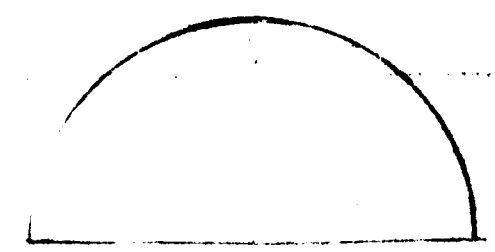

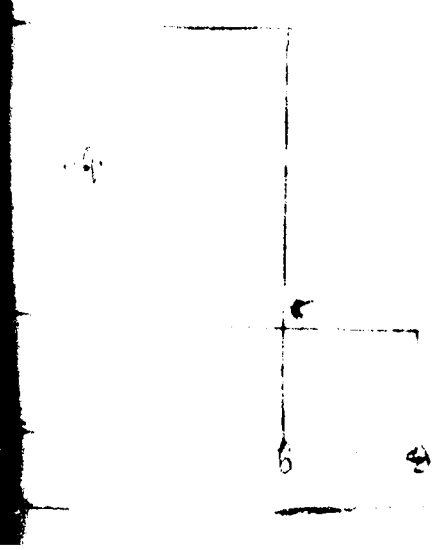
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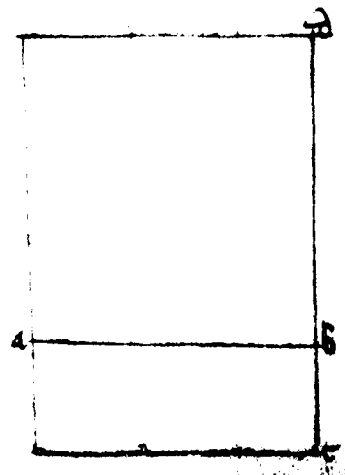
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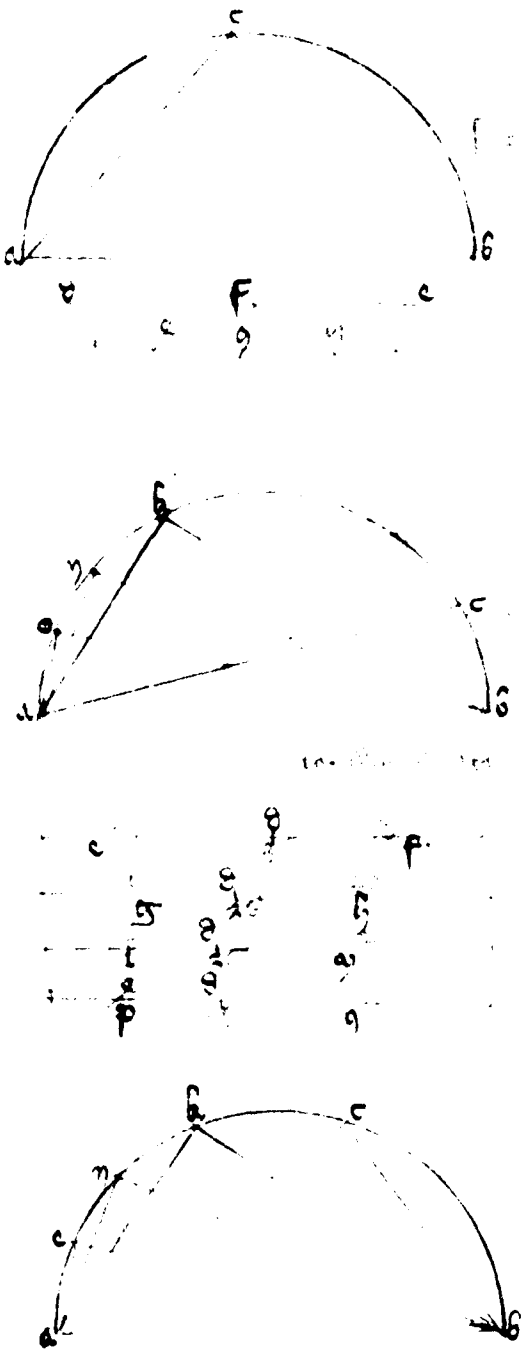
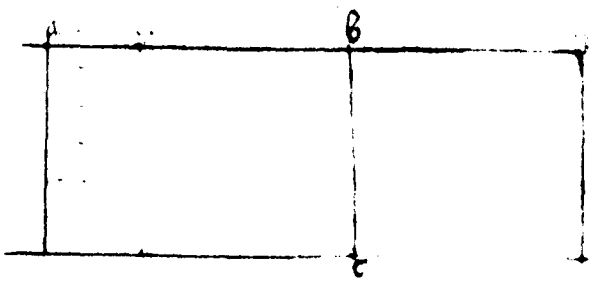


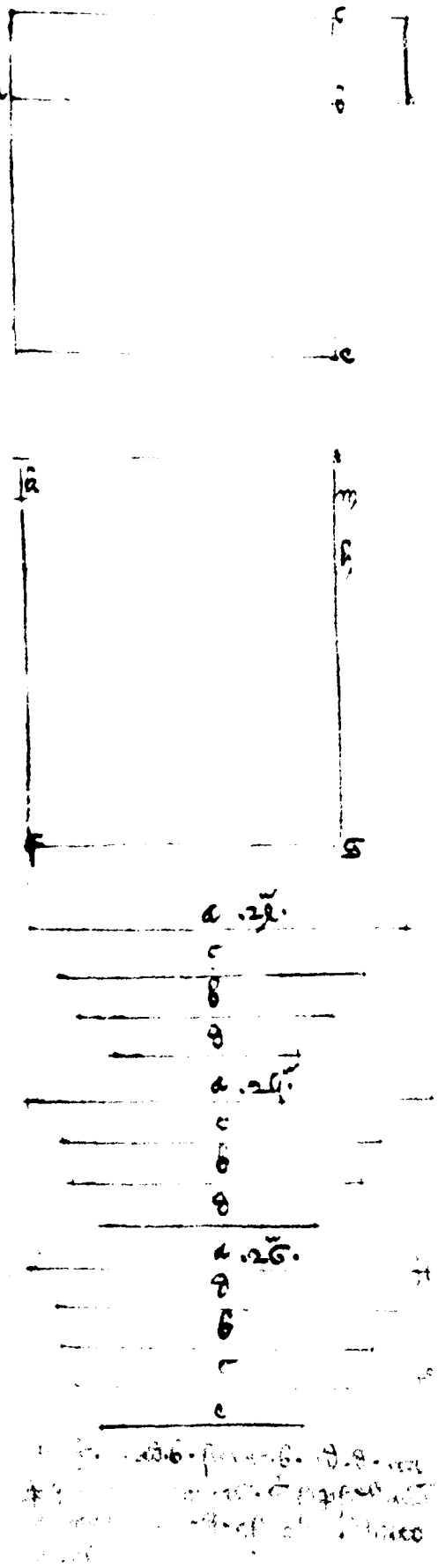


uas lias Jnuenire rectas quarū longior plus possit breuiore
quadrato lie q̄ quemcūq; rectis m longitudine

quarū longior poterit q̄ breuior quadrato lie q̄ quemcūq; rectis m longitudine ꝓpōm 2ª. Habeāt duas lias rectas pō ens ab. 2. ab. quarū longior poterit q̄ breuior quadrato lie q̄ quemcūq; rectis m longitudine sumo ita. q̄ lia rectā lem ab. 2. ab. quam describo semicirculum. abc. 2 ꝑpendiculo quolibet rectū. bc. duco ꝓpm m duos rectos. df. 2 ita q̄ sit ꝓpor. de. ad. df. sicut rectū ad rectum quadratum talis ē rectus 2 ipse quadratus duplus m ē tm 2 m rectū quadratum ut. q̄ sup duplā m. e. 2 m. q. 2 omnis hoc eque rectis 2 habens lām. m. ad cui⁹ quadratum se habeat quadratum lie. ab. sicut rectus. de. ad rectū. df. ab. 2 ipsi requisita demonstratione nō. dom 2 hīmōi lām habentem ad rectū. 2. ab. mox. capio ꝓpōm quarti semicirculum. abc. sitq; ac. 2 ꝓpriam lām. cb. 2 duas lias. ab. 2 cb. ē quas querimus 2 ꝓpm. in. 20. 2ª. singulis. e. rectis 2 io q̄ rectus ꝑ quadratum. ab. est equalis quadratis duarū. ac. 2 cb. 2 qz ꝓpor⁹ quadrata lie. ab. ad quadratum lie. ac. est sicut. de. ad fg. 2 ꝓpm 2 ꝑ eandē ꝓpor⁹ quadrata lie. ab. ad quadratum lie. bc. sicut. de. ad. fg. 2 quadratū. cb. erit quadrato. ab. 2. e. 2 quadratum. cb. ratio q̄ differētie a tota ratione supstracti 2 qz. cb. 2 ꝓpm omnibus ꝑ decimā ꝓpōnē ac erit duas lias. ab. 2 cb. ē rationales pōtes tm quadratis ac 2 qz lie. ab. est potens lām. cb. m quadrato lie. ac. que ꝑ 2am ꝓpōnē ac erit quadratis segmentorū longitudinē existentium lie.

Si 2 libeat plures duabus pōtibus tm rationalibus quadratis quarū longior sit potens lām quadrato cuiuslibet reliquarum describere semicirculum. abc. sumatur qz rectus. q. quadratus qui sit duplus m rectis quadratis cb 2 no quadratos quorū no quadratorū m longitudinē sit ꝓpor⁹ sicut aliquorū rectorū quadratorum ad rectū numerū se habentium ut. 16. qui q; duplus m. 24. 2 m. 36. 2 20. 2 rursus q; m. 24. 2 m. 16. 2 20. rursus q; m. 21. 2 m. 9. 2 32. istorumque no quadratorū qui sit. q. 20. 24. 32. ad rectū no 2 ꝓpor⁹ adiectus rectus quadratus ad eum 2 esto ut. 18. q. quadratus duplus m. 9. quadratorū. 2. f. no quadratus sit quadratilis. ac. sicut rectus. q. ad rectū. c. 2 duca lia. cb. 2 erit ꝓpm ut. 9 ad 8 ita quadratum lie. ab. 2 quadratum lie. be. ē duas rationales lias quales m quarto sunt quoz duplus. q. m. 8. quadratum 2 h. no ē tum sit ē tum lie. ab. 2 ē tum lie. ab. sicut. q. ad. 8 2 duca lia. eb. erit ut ꝓpm duc lie. ed. 2 bk. quales m quarto eo modo ꝑ rursus duplus. q. m. k quadratum 2 m. no quadratum 2 ponat ꝓpor⁹ quadrata lie. ab. ad quadratum lie. in. sicut. q. ad. k 2 duca nb. erunt duc lie. ab. 2 bn. quales m quarto duplus. q. m. p. quadratum 2 m. q. no quadratum 2 fiet quadrata lie. ab. ad quadratum lie. ab. ut. q. ad p. 2 ꝓpter ita fiet lia. ab. equalis duc lie. ab. 2 bk. quales m quarto sunt rectus. q. lie. ab. be. bk. bn. bo. —— rationales tm quadratis quorum duplus nullus quadratorum existentium in longitudine est. 2. de. be. bk. bn. bo. m longitudine existentium. 2 m longitudine q̄libet rectarum ab

aducta fiunt ſle ꝫ longitudine ꝓducto li ſuperficies cꝰlis ꝙ lie medialis lat⁹
2m ꝓcentialis tꝫ erit ducto le lateꝛ ꝙ primo in latꝫ ne ꝫ amenſurabile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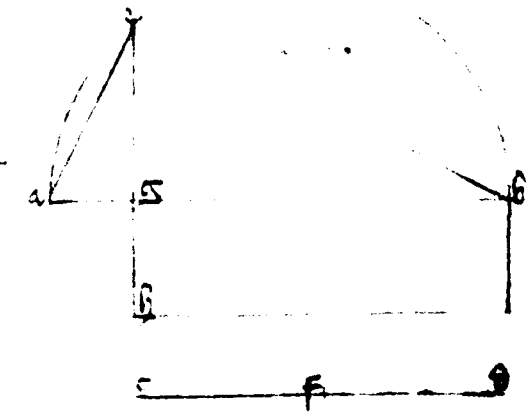
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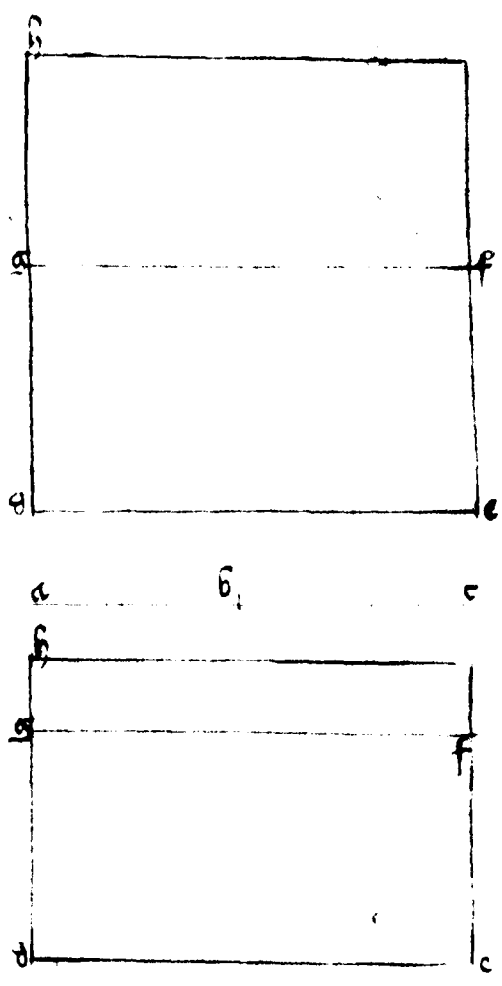
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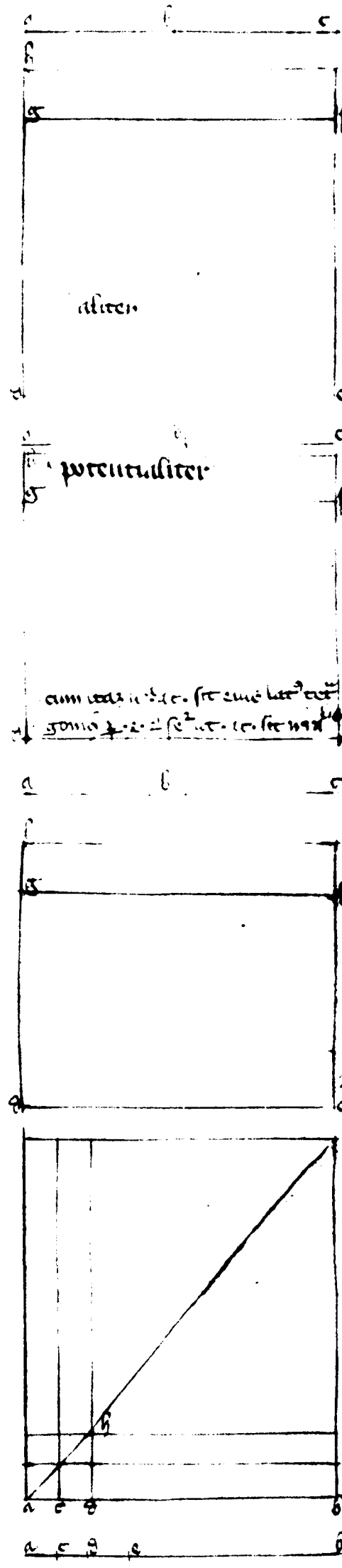
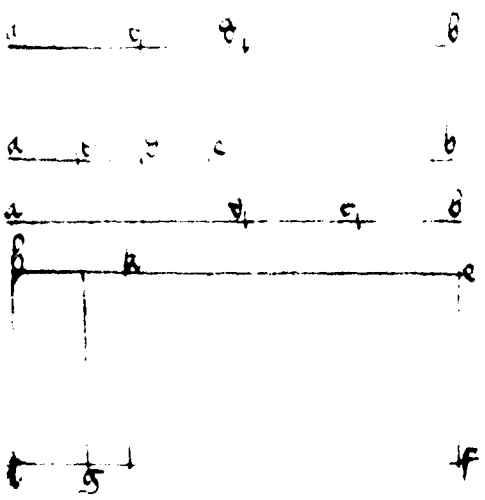
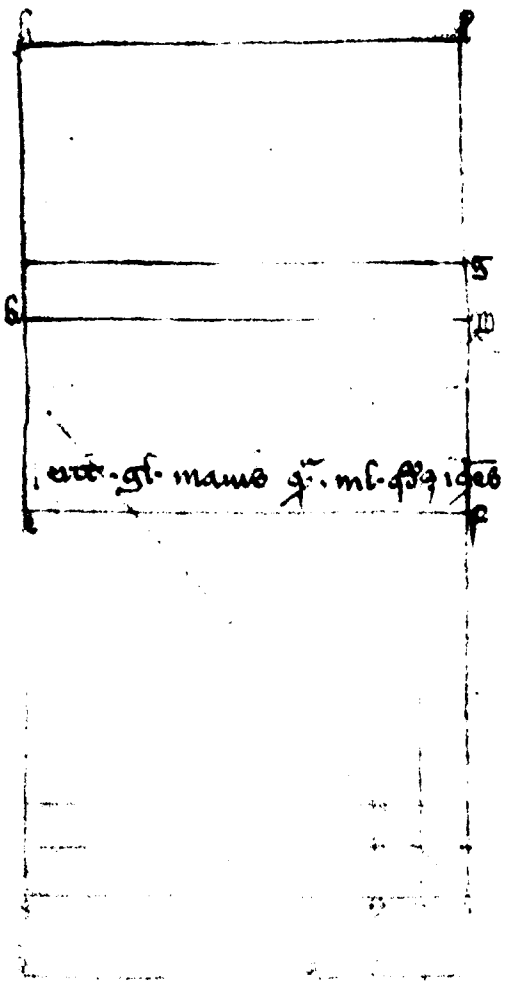
IIII cum lucte fuerint due lince potentialiter ignote superficiem medialem
continentes quar abo quadrata pie accepta sint mediale tota lia erit rationalis dicetur
qz sint maiores. Tunc due lie ab. z. bc. & m gen dnom qz quicte sicut ppon. qb gen repte co
ab. ic. co eis rpostam c lam rationalem z rationalem uocabo lam maiorem a. n. ambo quadrata pie accepta sit
[illegible] abdum m abdam qz z eius duplu medialis ppositum et comprehendo duobz quadratis pie ac
[illegible] duplo superficiei dnm m abdam icta. tota abstractum ex duobz quadratis z duplo superfi
[illegible] equale quadrato. ic. p quam 2. et p. q. huius m gnem duobz quadratis pie accepta
[illegible] quadrata he. ac. rationalem z lia. ac. rationalis qb z ppon. de abdam. de. que sit rationalis m longitudine
[illegible] superficies. bf. que sit equalis duobz quadratis duarum lin. ab. z. bc. pie acceptis et qz ra
[illegible] p. 16. latus cuius z qb z. dz. et sit rationalis m longitudine m gramis he. de. rursus abdam. fx.
[illegible] superficies. fh. equalis duplo superficiei. ab. m. bc. et medius ppositum qz p quam lia. gh. que
[illegible] rationalis tm m po p. 20. 5. est lia. dh. dnomni z rationalis roz p. 16. adestruc ne qz ab
[illegible] est rationalis qz latus cuius qb p quam 2 z. ac. est rationalis qb posterius erit ostendere
IIII cumcte sint due lee m cumentes superficiem qz tota quarum
[illegible] quadratum piter accepta sint mediale tota lia erit rationalis dicetur qz potens ra
[illegible] dnom ac m dmissa due lie. ab. z. bc. m gen dnom qz quicte quales ppon. z ipse sit co. 28. sub
[illegible] ex eis rpostam et rationalis z lia uocata potens m ratione me. cum sit. n. superficies. ab. m. bc. rationalis
[illegible] ppositum io qz duarum eius ac ambo quadrata pie accepta sit medialis sequit p quam 2 z. q. huius q
[illegible] quadratum co. ac. sit m gramis duplo superficiei. ab. m. bc. p diffinitionem z pon
[illegible] lia. ac. rationalis qb z ppon. de alia sit ac m dmissa lia. de. rationalis m longitudine superficies qz
[illegible] z quicta cuius duobz quadratis pie acceptis duarum lin. ab. z. bc. et qz medius ppositum p. 20.
[illegible] et ad. qz [illegible] m co cum no de gramis m longitudine lie. de. sit qz superficies. fh. adicta abdam. gh. cuius
[illegible] superficiei. ic. m. bc. erit qz rationalis ppositum et p. 16. latus cuius cm qb z. gh. rationalis m longitudine qz
[illegible] lia. dn. z dnomni z rationalis z superficies. ch. pie. adestruc ne qz rationalis p diffinitionem qz sit ac ppon
IIII nigluete sunt 2e lie po m comitentes superficiem qz nicle comentes qz
quadrata ambo pie accepta sit medialis duplo superficiei. Quod m abdam m gra
[illegible] tota lia rationalis dicet qz potens m duo media

Tunc quas due lie. ab. z. bc. m gen
dnom qz quicte ut ppon. que ex
[illegible] dor lia. ac. co eis posita est rationalis et ipsa dicet potens m duo media adiuncta ac. n. adiu
[illegible] rationalis m longitudine superficies. bf. equalis duobz quadratis duarum lin. ab. z. bc. pie accepta erit
[illegible] p ppositum qz p. 20. lia. gh. erit rationalis m po tm et m gmetis lie rationalis. de. m longitudine rursus
[illegible] cf. que est equalis. de. adiuncta superficies. fh. que sit equalis duplo superficiei dnm m abdam erit
[illegible] medialis qz p. 20. lia. gh. et rationalis m po tm ac p ppositum ambo quadrata pie accepta
[illegible] 2 duplo superficiei dnm m abdam sequit ut. bf. sit m gmetis. fh. ut p ppon. 5. et p. 24 m pte
[illegible] ut. bf. est m gmetis rationalis. gh. p. 20. 5. est lia. dh. dnomni et rationalis ut superficies. gh. et ra
[illegible] et latus cuius tertiadecimo qb z. ac. ut m dmissa qz aufert ppon si et duplu superficiei. ab. m. bc mo
[illegible] m communi mensura amborum quadratorum pie acceptorum esset lia. ac. melius. esset. n. bf. iam. fh. io qz lia
[illegible] ac. z. co 5. dh. esset rationalis m po tm m gmetis m longitudine lie. de. p. 9. 5. et superficies ch. medius qz
[illegible] cuius quadratum qb z. ac. lia melius. ut ad facilior fiat determinatio secretu dnm inferamus arbitrio
[illegible] lo p quod p pm z. Tunc igit lia p duo m cta dicta duplu quadrata ambarum sectionum pie accepta
[illegible] duplo superficiei dnm m abdam qm et quadratum eius lie a maior quam me. cta lia
[illegible] duplu p duo m equalia m puncto. c. sit z maior portio. cb. de quarum. cb. equalis. ac. de qz
[illegible] lie. ic. z. bc. sit amplius duplo superficiei dnm m abdam m. quadrato lie. db. na adsit
[illegible] ac. z. bc. est equale ei qb sit ec. ac. m. cb. quater et quadrato
[illegible] co qui [illegible] cta lia sit quadrato lie. ab. p quod p pm z. 2m ut p. 8. cuius dupli vera dimi
[illegible] dabit ut dicta co qb sit ec. ac. m. cb. bis erunt nobis quesita de p quod [illegible] quadrata duarum lin. ac.
[illegible] cb. de. z. 2 ut qb sit ec. ac. m. bc. bis quatro. db. equalia qui gratia ppon. ecto qz m manifestum qz
[illegible] p. 2 m equalia duo quadrata ambarum partium pie accepta quibus sit duplo superficies dnm abdam
[illegible] ppositum dnm sm. Tunc ita ut p duo cta dicta de qz lia duo m cta quadrata quadrata q cta
[illegible] m multitudine pie accepta tanto sit amplius quadratum mm m cta quam
[illegible] pm quadrata illius de quae nec rationalis z sectiones z explum cuius qb sit ec ch







lia m eam que z me pimetrum sect me minus m cauliu z pimetrum qd duabz tm hm pe qualia ~ Fit lia ab duca p duo m cauliu m puncto c. Jo qz p ad mg m cauliu m puncte d rursus p equalia m c. duco q quadrata duar pedu magis medietate que sit ae z eb tm amplius duabz quartis duar pedu mag m cauliu que sit ad z db. qd z duplum quadrati de eb z quadruplum eg qd fit eo eb m de sit n p q z quadrata erit lia cb z bb. qd accepta dupla adrae duar lit be z eb qd accepe ut p camb q z quata erit lia ae z ed. qd accepta z pia sit quartis z lie lia be z ee. qd qd accepta, vat quadrata duar lit ae z eb p qd accepta eodem mo quata z lie ad z db. qd accepta m eo q duplum erat lie ee. erit duplum erat lie de. sed p eam z z duplum erat lie eb z quadruplu eg qd fit eo eb m de. quare q stat pro Exposito manifm z q. tuo fuerint sect nes alterius de mag m equales tamen cum q qd pdicta mata z sho z qd qd q. f. d. c. m. f.

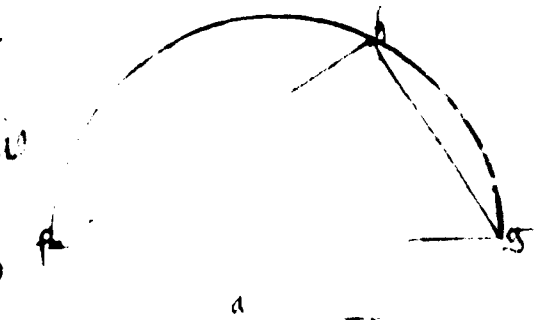
n alias duas lias sub eab tmo eo quibz quictas notatum est p mon. vidi impossibile est ~ Fit lia ab p momtu erit eo. ae. equalia eo duabz lib ed tm m de mas quales tm z tantes si n p duar m ad z bb. que sint ed tm tales z tantes eisdo quor lia ef. tales m longitudine tm distantes superfies eg. que sit equalis quadratis duar lit ae z eb. z acceptis z superfies eh. que sit equalis quadrato ide ab. et qz superfies eg. tales io q ded quadrato inclyt ae z eb. est tale p positum z superfies eh. melius p. 19. am p z equalis duplo superficiei m eb. p eam z ste rursus superfies eh. equalis quadratis duar lit ad z bb. qd accepe de quibz se a duabz lib ae z eb et p eam demonstratio p manente superfies eh. quia assignate eg. equalis ste bg. et p p eam z eo que supra eh. sup. eh. qua ste bl. equalis duplo eh qd fit eo ad m bb. ho et z superfies eh. talis vat superficiei bg. erit ste pia duar superficiei tales que ste eg. residuo. n. quare erit tale dia mi m tali positione z q. hui ho. ostn. bz eadem quor pia ste pia duar superficiei medietati que sit ah z eb. et tales p 22 qd z impole

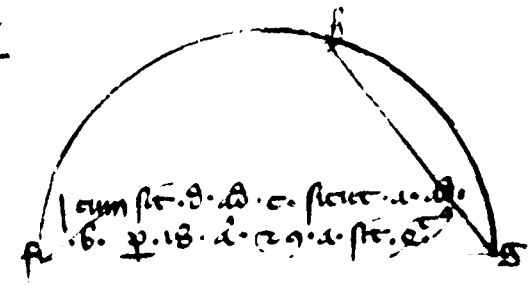
medietati primo p tm sibi m duas lias medietates duarum sub eab eo m a ab duas lias medietates idem quibz est impole ~ Fit p hoc ha ab. dimidiu p quia m duas lias medietates p tm grantes superficiei qz rationalem gentes eo quibz zi. assignat eam eo m que ae z eb. qd p impole z eam quibz m ab duas lias sub eab distincte. qz assignet eo m p in eo. qd assignet qz tale tale. ef. adaptatur et eg. equalis duabz quartis duar lit ae z eb z superfies eh. equalis quarto. ab. z superfies ph. cabo adrae duar lit. ad z bb. et qz p eam z quo duplo superficiei ae m eb z p eam erit bl. cabo duplo superficiei ad m bb z p p positum et ultra superficiei eg z ph. medietati utrag earu eh z bl. ra ho. impole est n. qd p eam superficiei bgs utrag ea. 22. p z me est tale eo dictorum z h. qd z m genere

me xm. vel medias lias tm sibi duo quibz nō p ~ Fit ut prius ha ab. bi m duas p. ae z eb. medietates p tm grantes superficiei qz medietatem orti eo qd ge. ponit eam eam p qd z impole z eam quibz sibi sub eab distincte m ad duas lias z duabz quibz superficiei est una superficies eg. ph. ph. adiuncta ad eam rationem est erunt qz p tres z quatuor superficies. eg z ph. medietati p. 20. utrag duar lit. fg z gl. et tale impole tm nō eam quibz lie est eo quibz ha ae z eb. erunt m omnibz m tm sequi p ipsa 6 qd z am quibz superficies. eg. mo m tm est superficiei. gh. z lia. fg. li. gl. qd p 6 z eam p ha. ab. z superficies. ph. est tm o mu duas p z eam tm m puncto. g. et mo probabit utrag tm m. z medietati superficiei. eh. z. mu. duas p eam tm m puncto. m. qd impole p. 26. nō. n. p qd quibz sibi quibz est m puncto. g. z m. m puncto. o. sibi tm. n. est ha. sm. equalis. g. 29 sm. 26. z eo p positum antecedenti huic z demonstratio mo impole et qd. 22. sc

maiori vel medias lias tm eo quibz oriat sub eab eo ~ Fit qz eam p ha maior. ab. duca m puncto. c. m duas lias potentia nō m eam p positum z medietatem gentes quarū ambo quadrata que accepta sint rale eo tale quibz m ab duas lias sub hac differentia quibz est positio. ad. q. manentibz hac differentia positis que duo z angule q dictum m. 26. p eam hac eadem z utrales qd z impole

minori potens ra vale z mediale vel ra duas duas lias tm sub eo tm ii duas ~ Fit quibz eo. manentibz quibz fuit positum ab. duabz ei p ma et m ab duas lias eo quibz z. de eam impom qd p. 36. sī. n. alie sunt q impom


a
b
f
g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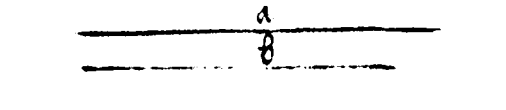
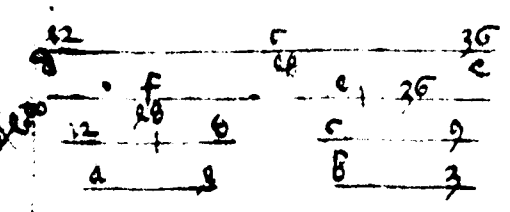

a
b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a
d
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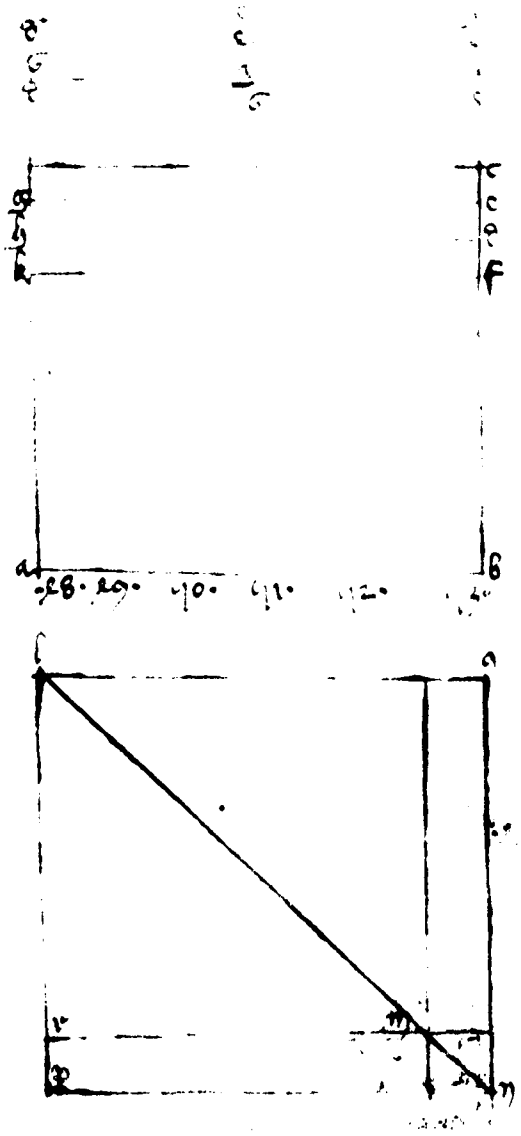
z



gme ſt· b· nūus ꝑmus · c· bo quadratus d· uius m̄ quadrati· d· ꝛ no quadratum· c· ꝓ
oma ſint ut ꝑ ꝺ q· ꝺuc ad· ſ· ꝛ· gſh· ꝓponit bmom̄ ẏn newt· n· illarꝫ ꝗ gme
m̄ longm̄ hē· a· ralı̄ ꝓte ꝗ uoraz m̄ gmēs· ſ· quib ꝓ bma ꝓte· a· eſt· n· ꝑ ꝓor
quadratum hē· a· ad quadratum de· gh· ſicut nūus· b· ad nūu· c· medij hui quib quadrat
ſ· m̄ uo nūo· c· nūs ẏ· b· et· c· no ſt m ꝓor ne aliquor quadratorꝫ q· b· ſt nūus ꝑmus
ſ· n· eſt m ꝓor ne quadratorꝫ nōe eſt ꝓ· b· ꝛ b· cuius m̄ geia ꝓor te ẏn eis nūe
eſt ꝺ ꝓ· ra· cuius nūus· b· ſuppſ· q̄ꝫ m̄ꝓle q· ſt ꝑmus ꝑ ꝓpoſm̄ m̄ gmēſuralis ꝗ
ꝛaz hā· gh· hē· a· ralı̄ ꝓte ꝗ bma ꝓte· ac· q̄ꝫ· ſ· hā· ſ· ꝓtenor ꝗ hā· gſh· m̄ quadrate
hē· fh· ꝗ ꝛo· z· ꝛ ꝑmutbma ꝑ q̄ ꝺeat q· a m̄ longm̄ re ꝗ ꝛa ꝓte· a· ꝗ bſſne bmi

monuit ẏm ſcribam ẏn mḇnone bmoꝝ ꝺ gh m̄ ꝓcedēs ẏ z· ẏ nra mēno
ꝗ ſicut m̄ mḇn̄re ꝑ ꝓcepto q· ꝗt· nūus· c· ꝗu· m̄ duos no quadratos que ſ· ſ·
ꝛ· c· ꝺeā oīa ne ſ· hī ꝗ bſſne bmoꝝ ꝗ ſicut i ꝗ bſſne bmoꝝ ꝑmm

monuit ẏm quierere hui mēno ſ· ꝗ ſicut bmom̄ 2 ꝓcepto q· nūus· c· no
quadratus ꝺuarum· m· ꝺ· no quadratum ꝛ· c· quadratum ꝛa· eſt q· ꝓor· c· ſ·
no ſt ſicut nū quadrati ad nūm quadratum· ꝺeā oīa ꝑ quā ſ· ꝗ bſſne bmoꝝ
ſ· ſicut ibi ꝓbat ſ· ꝗ bſſne bmoꝝ 2 ꝛ ꝓne q· hā· gh· ſ· ꝗtang hē· a· ralı̄ ꝓte m
longm̄ re ꝛ ꝓne nūu· c· quatum ꝺuos m̄ duos no quadratos q· ſ· ꝺ· ꝛ· c· ꝓne ꝛa
ꝓor ies quadrata hē· gh· ad quadratum hē· fg· ſicut nūs· c· ad nūu· c· ꝺem ꝗ ſtruc ꝗ
ꝗ bma ꝓte· a· ꝛ ꝓnab ꝓpoſ ꝛ q· ſ· ꝛ ꝺa ꝓte· a· ꝛ bſſne bmoꝝ

ꝛ bmoꝝ ꝗ ꝺem oz ꝛ ſ bmom· ꝗ· ſcat ẏn ſcrus ꝗ· c· ꝗ ẏ ẏn nūus quadratus
ꝺuius m duos no quadratos· ꝺ· ꝛ· c· ꝺeā ut i ꝗ· az ex bſſne bmoꝝ ꝗ hā ꝗ ꝓpoſ· ſ·
ꝛ· gh· ꝗ mḇn̄ ꝺme q̄ntę bmom· ẏn· q̄· ꝗ ꝓpoſ m̄ bemīe

ꝛ ſuerit ſuppſ bmoꝝ ꝑ lineaz ral ꝛ ꝺuctā latus ꝗꝺ ẽ cum ꝑ bma ꝛ nocē eſt ſit ſuppſ· ac· gonia hā· ra· ab· ꝛ bmoꝝ ꝑ· ꝗꝺ ſt· bc· ꝺ· ꝗ latus
ꝛagonij ſuppſi· ac· eſt bmom· ſt· n· ꝑmetus· ꝺ· ꝗꝺ ꝛ ꝺuaꝝ ꝑ m̄ bmoꝝ ꝑ· bc· cui
m̄ uor ꝛ· ſt· bd· et ꝗz ralis m̄ longm̄ re ꝗ bſſne ꝛ ẏ· hē· de· ab· ralı̄ ꝓte ꝛ ꝺuct· ut· m̄
ꝑ· que ꝛ· ꝺ· ꝑ equalia ad ꝓtum· c· ſit ꝗz· bd· ꝺuct· ſub ea ratione ad ꝓuct· ſ· qꝺ ꝺ·
ces cuius que ſ· bf· ꝛ ſ· ꝺeat· de· m· ꝛ ꝺo ꝓor· ne ſ· ꝺuct· fiat m· ꝛ· dem ꝛ ꝺuct· n·
·c· ꝺ· ſ· ꝗ ſtr· ꝗ ſtrumq̄ hē· ab· ꝛ ꝗz ꝗ bſſne bmoꝝ ꝑ hā· bd· eſt ꝓtor hā· d· m ꝗ
hē· ꝺ dem m longm̄ re ſ· ꝗ· ꝺ· ꝗ· ꝓpoſ· q· ꝺuc hē· bf· ꝛ· fd· ſint ꝺecimoꝝ ꝑ· q· ꝺ· eſt ut· cui
ꝺecim ꝺ· hē· bd· ſ· ꝑ ꝺ bſſne bmoꝝ ſt ꝛ ꝺ· m̄ longm̄ re ꝺ· ꝗ ꝑ· q· bc· ꝛ· ſ· ꝺ· ſint ꝺecimoꝝ
ſ· ꝗ ſtr· ꝗ ſtrumq̄ ꝺeſcribat ur ita· quatum· hm· cuius latus· hr· eāle ſuppſi· af· cui ꝗponatur gnomo ꝛ
tracta ꝺuctom· ui· im n· ad cum ꝗ ꝛ· ꝗ· ꝓ· gnomois quadratū qꝺ ſt· m n· ſt· eāle ſuppſi· fi
d· w· ſuppſi· ta ſint· ꝑm· ꝛ· mq· que ntē ẏ ẽ equalia ꝺuab ſuppſitis· ꝺg· ꝛ· gt· qꝺ ſic cōtr
cim ſt· n· ul· de· me· lo ꝓpoſ mḍ ius· bf· ꝛ· ſꝺ· ent ſuppſis· ꝺg· qꝺ ꝑ· ſ· me· lo ꝑpoſ
me ſuppſis· af· ꝛ fh· quanꝫ me quadrata· hm· ꝛ m· n· ꝺeꝫ ſuppſ tim ꝑm· ẏ ꝛ me· lo ꝓpoſ· ſ· me
quata ꝺa ꝗpoſ· ſ· ſ· ut· ꝑm· ſt ẽ equalis· ꝺg· ꝛo ꝗz· mq· ſ· ꝛ· ꝗ ral· ſp· ẏ latus tertiaꝫ ſuppſi
·ac· i· inc ꝺ· ſ· bmom· cim ſmt· n· ambo quata· hm· ꝛ· m· n· ral· ent ſ· ꝗ bſſne ꝺuct· ſ·
rp· potenꝺ rtes eſt ꝛ ꝑ ꝑ· ſ· af· ad· ꝺg· ſicut· bf· ad· de· ſ· bf· eſt m̄ gme· ſ· de· ſ·
miſti ꝓpoſ ꝑ· m· ẏ ita ꝑ ẽ ꝑ· ſ· ſuppſi· af· ẏ m gmēſurabilis ſuppſi· ꝺg· ꝛ quadrate
ſuplēto· ꝑm· ꝗr ꝑ ꝑm ſ· ꝛ ral ꝓpoſ· ſ· ral· ſ· ẏ m gme· ſ· le· rp· ꝗ· ꝛo· ꝺ· ꝗ ſtat· ſ· ſ· bp· ſ·
no mū· ꝗꝺ monſtrand

ꝛ ſint ſuppſi· ꝑ ral ꝛ ꝺuct· bmoꝝ ꝗz· ꝗ tenta latus eius tertiaꝫ ꝛ· ꝺuc· le ꝑmū ſint caſꝰ ead ꝗz ꝓpoſ· que m ꝑmiſſa ẽ· ẏ ꝗ ꝺ bſſne bmoꝝ 2 ſ· ſ· de· ral· ſ·
ꝗr ꝗ· ſ· ſ· ſ

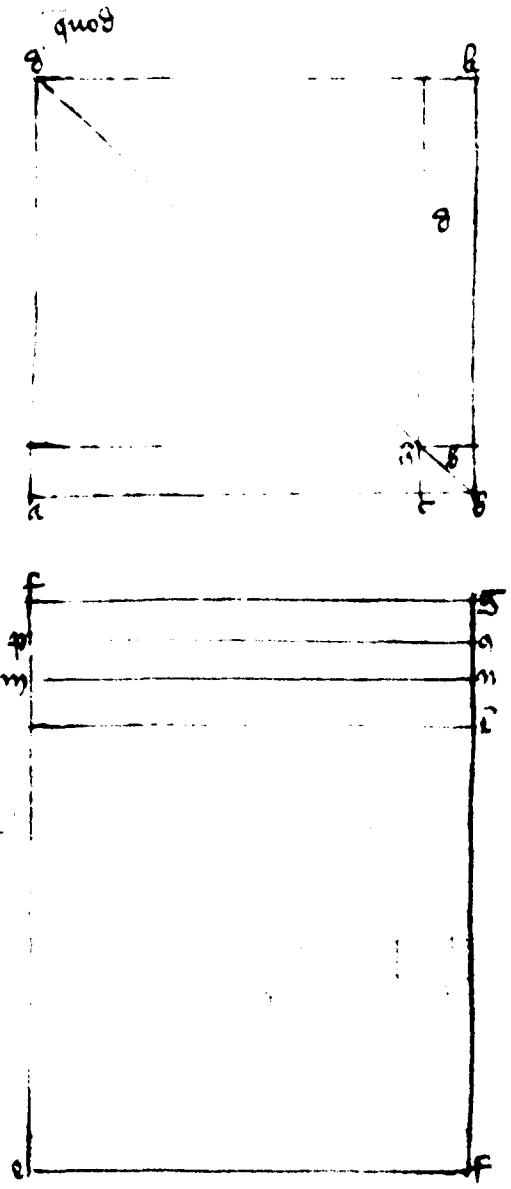
1 linea rōnalis binōꝝ quarto superficies cōtineatur que nō erit cum superficie ex est linea minor

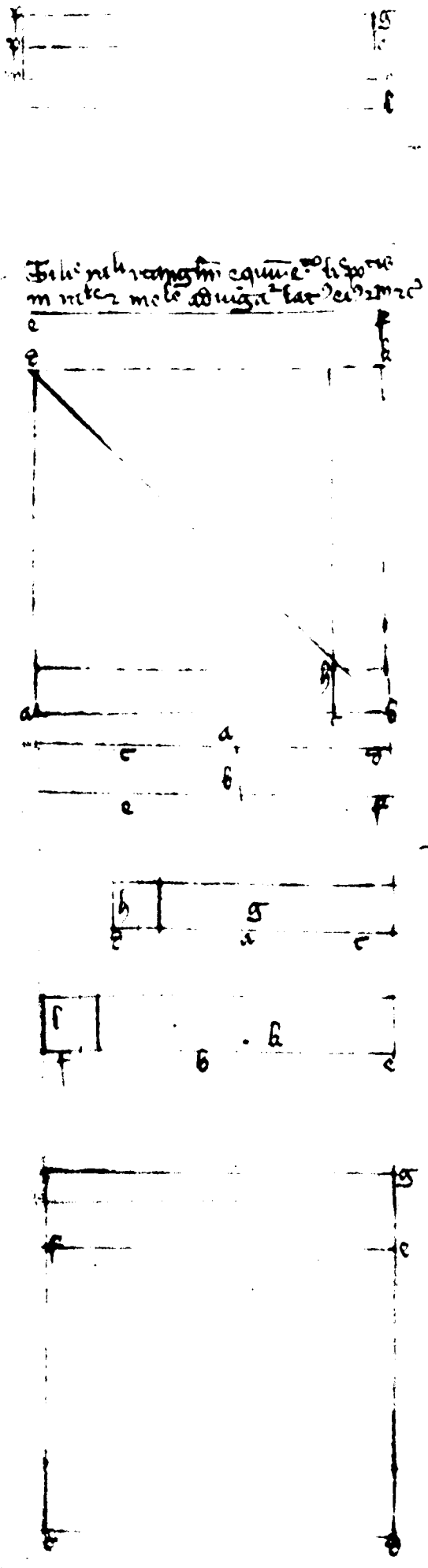
1 superficies lineis rōnalibus arg binomio 1o cōtenta quoꝝ nulla linearum potest potens est medialis ee quæritur eo nōa ee

1 binomio 6o linea ex rōnalis superficies contineatur ha que nō erit cum potest vni duorum

1 linee rationalis equum quadrato binomii rationalis adiungat latus eius binomium ee dcr

1 linee rationali equa superficies quadrato binomialis ꝑ adiungat latus eius reliquum binomium ex ee oportet





r. rectangulus

Si linea recta rationalis secta sit in media et extrema ratione, quadratum utriusque segmentorum duplum est quadrati totius lineae.

Sit linea recta rationalis a b secta in media et extrema ratione in punto c, ita ut a b major sit segmentum quam b c. Dico quod quadratum a b duplum est quadrati a c.

Describatur enim a quadratum a b d e, et compleatur figura.

Quoniam igitur a b secta est in media et extrema ratione, et a b major est segmentum quam b c, rectangulum a b e f aequale est quadrato a c. Et quoniam quadratum a b duplum est quadrati a c, quadratum a b aequale est rectangulo a b e f et quadrato a c. Sed quadratum a b aequale est rectangulo a b e f et quadrato b d. Quadratum igitur a c aequale est quadrato b d. Ergo quadratum a b duplum est quadrati a c.

Si linea recta rationalis secta sit in media et extrema ratione, quadratum minoris segmentorum triplum est quadrati dimidiae lineae.

Sit linea recta rationalis a b secta in media et extrema ratione in punto c, ita ut a c minor sit segmentum quam c b. Dico quod quadratum a c triplum est quadrati dimidiae lineae a b.

Sit enim dimidia linea a b linea d. Dico igitur quod quadratum a c triplum est quadrati d.

Describatur enim a quadratum a b e f, et compleatur figura.

Quoniam igitur a b secta est in media et extrema ratione, et a c minor est segmentum, rectangulum a b e f aequale est quadrato a c. Et quoniam quadratum a b duplum est quadrati a c, quadratum a b aequale est rectangulo a b e f et quadrato a c. Sed quadratum a b aequale est rectangulo a b e f et quadrato b d. Quadratum igitur a c aequale est quadrato b d. Ergo quadratum a b duplum est quadrati a c.

Si linea recta rationalis secta sit in media et extrema ratione, quadratum minoris segmentorum triplum est quadrati dimidiae lineae.

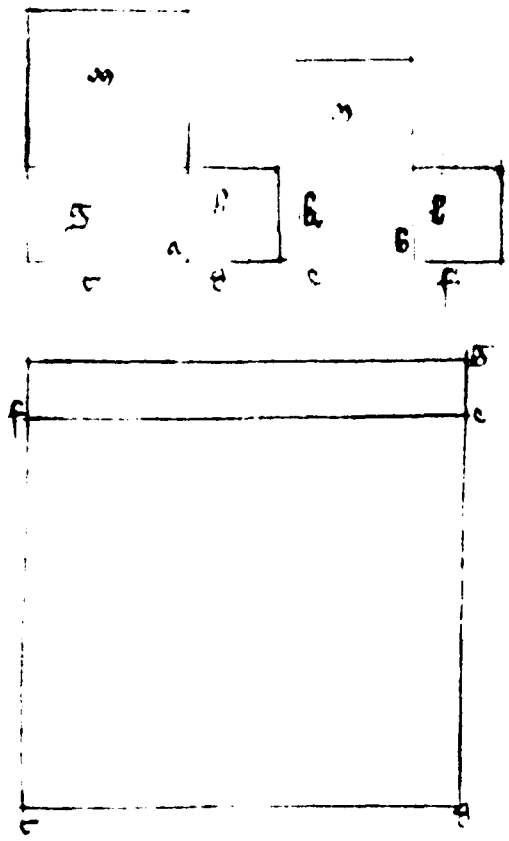
Sit linea recta rationalis a b secta in media et extrema ratione in punto c, ita ut a c minor sit segmentum quam c b. Dico quod quadratum a c triplum est quadrati dimidiae lineae a b.

Sit enim dimidia linea a b linea d. Dico igitur quod quadratum a c triplum est quadrati d.

Describatur enim a quadratum a b e f, et compleatur figura.

Quoniam igitur a b secta est in media et extrema ratione, et a c minor est segmentum, rectangulum a b e f aequale est quadrato a c. Et quoniam quadratum a b duplum est quadrati a c, quadratum a b aequale est rectangulo a b e f et quadrato a c. Sed quadratum a b aequale est rectangulo a b e f et quadrato b d. Quadratum igitur a c aequale est quadrato b d. Ergo quadratum a b duplum est quadrati a c.

f.32.



totam superficiem vide oppositum diametri erit [illegible] binomij ex duabus ac binomiale primum a tota maiori aut potens mediale et mediale

[illegible]

[illegible] fiunt due superficies mediales in angulis rectis alterum et duarum rationalium vnius ac binomialis primi a potente in vno mediali

[illegible]

[illegible] fiunt due binomiales vtique sequentes eadem et eadem alicui subtendens

[illegible]

[illegible] fiunt due binomiales vtique sequentes eadem et eadem alicui subtendens

[illegible]

[illegible] a tota abstrahatur fiunt quatuor duarum potentialium tantum rationales quarum vna erit rationalis dicetur quod residuum

[illegible]

[illegible] a tota abstrahatur fiunt quatuor duarum potentialium tantum mediales quarum vna erit rationalis dicetur quod residuum mediale primum

[illegible]

superficiem ratio[illegible] quinc
tes

1 linea de linea secetur flintz ambe mediales potetia tm q̃tuor tes ot me
tes oz me le reliqua lia erit rna lis dicetur oz residuu mediale zm

1 lia de lia detrahatur flintz abe potẽ tm comen les ori tes oz me le quadratuz
pter acepta rationale reliqua lia erit rnalis nocabit oz ruor

1 lia de lia detrahatur flintz abe potẽ tm momenslis les supficiei rationalem ori
nentes q̃ta oz cat pter acepta me le lia reliqua erit rna lis dicetur z tuc

1 lia alia detrahatur flint oz potẽ tm momensium les supficie oz mediale otue
tes quadratu oz cat ambo pter acepta me le duplo supficie adus maiori
momensium le reliqua lia erit rna lis dicetur oz ortecta q medialẽ supficiem totũ mediale

1 flint .q. ora tes ora prne maiori ad z̃ sit sicut ze ad q̃z et pmũ ora p
ad z̃ sicut ze ad q̃z

ulla lia li vna tm residuo quinqi pt ut sint ade sub to cartu que eunt ex seq
tiones

1 flint de ora tes ora pme maiori ad z̃ sit sicut ze ad q̃z et pmũ ora p
ad z̃ sicut ze ad q̃z

ſumte quoz ſit ſ̄r̄a. bl. ad li^am. bm. equalis duobz quadratis duarū lin^arū. ad. z dc. qrū accep. ut z
mm. ſit equalis z duplo ſuppſ' dm̄ḡ m̄ abdm̄ erūt ep. a. z nl. equalis quadrato lē. ac. ut ḡz ē ei⁹
. hſ. eſt ꝛa ꝓ dr̄a. cſ. ad. gh. ſcuti bl. adhm̄. tr̄ ꝓ ans ꝓ mnſſ erit ꝓmūti dr̄a. cſ. ad.
z ꝓa ſit. p. ſcuti. gh. ad. mm. z qd ueraz duarū. ef. z. kl. eſt ratio tūz n⁹ duarū. gh. z. m
medialis ſequit mppoſle udz ſuppoſm. ep. ē ratem z mraſem

ulla lia nſi vna tm̄ reſiduo me^li ꝓ omnigr̄ p^r ut ſint ambe ſub eo carū
erunt ambe ſecationem. hr̄ quoz ꝓba ſumit m^o ſc. n. m ſtra ſcr ne ambo quarta ꝓ
accepta medialē duplam. z^o ſuppſitam dm̄ḡ habeam rale z qz ut ꝓus eaz z tra quadratū
ſectionis ad quadratū alterius quez duplū ſuppſitam dm̄ḡ ad duplū ſuppſitam lineas et dna z ſ
ſuppſitas, dr̄a duarū medie z duarū rationalē ꝓbz mppoſle

ulla lia reſiduo me^li z^o omnibus eſt ut ſub eo carū fiat n̄ tm̄ que ab eaz
ambe ſecta erunt ſit. n. ac reſiduū me^li z^m que ſibi reſtua abſtracta. bc. ep. ab.
erunt qz ep. ad. duc lr̄. ab. z bc. medialis ad tm̄ ḡrantes me^li ḡmtes do^g ꝓa. ac nulli
ue^l ḡ. cf. ſibi hanc ſuffire quinq; ꝓ. ſm̄ ḡ quinq; ut lic. eo. ſit qz lia. ef. rale m longi^ne ad
ḡdratū ſuppſitū. hē. eſt qua duarū lr̄ū. ab. z bc. ꝓ acceptis z. kl. quadrat duarū lr̄ū
. ad. z. dc. ꝓ ut accepta aīa abſtinēa. eo. equalis quadrato hē. ac. erūt ep. a. z ſuppſitas
. ih. equalis duplo ſuppſitē. ab. m̄. bc. z. kk. ꝓ eaz ſit equalis duplo ſuppſ'. ad. m. bc. qz ſ
to quadrata ꝓtm̄ ꝓ ſcti⁹ m̄ ſc. me^li z duplū ſuppſitē me^li m ḡmē duoz quadratoz
acceptis que neſcire ſtēo diligens nō vocat qui ponēs quinq; ſuaue et ſuppſitas. ſ
duas ḡnēa ſit equalis duplo ſuppſ' dm̄ḡ m abdm̄ ꝓ. z. ſ̄ eſt uez duarū lr̄ū. fg. z hg. rale m
tm̄ z qz ḡna eſt m ḡmē alia ꝓ ḡ ſuppſitas. eh. z m ḡmē ſuppſitē ihl. ſicut duo quadrata
ſolo ſuppſitē erūt ep. gb. ua. fg. reſidui qr ua. fg. auez reſidui ꝓ. le. gh. ut ſint ambe
to carū que erunt in ſeparatione ſic auoz ꝓbabis cambo qua. gh. ꝓpoñ eab ḡmē me^li ſita
. ea. z. kl. ſ̄r ꝓ equalis quadrato duarū lr̄ū. ad. z bc. ꝓ acceptis z z duplo ſuppſ' dm̄ḡ
ab z mppoſle ep. aq. z hoc modus demonſtrandi me ꝓt ē gb. ag. ceteraz. q. ſequentiū

ulla lia maiori ḡ nigr^li eſt ut ſub ſuo to ſiant n̄ tm̄ que a tota abſtrahitur
ingrediatur intelligē quod ſit lia minor ad ſi abſtracta ea ḡ ſue. ac. z ſme oblecte ḡ
ꝓpoſ ꝓ m. ag. ꝓcedis ſicut ag ſ ubiq; ḡ b m. ag. z ceſſē

linea que tota cū rationali faciat to^m me^li n̄ vna tm̄ ꝓpoſitarū no poterit
ut ſub eodē caro fiant ꝓ ſcia que ꝓpoſit ep. ac. diuiſerit ḡ ſ̄ ubiq; de ea ab
ſame. ab. diuidat ſemp̄ ſtrac a ꝓceſſu. ag. m̄ quoḡ nō deuies ſ̄ ſicut m. ag. ſic de alijs
ḡcedo duoc ꝓcedē ꝓcedis

mee que tota cū mediali faciat to^m mediale n̄ vna tm̄ linee ꝓpoſitarū
ſub eaz^o to fiant que erunt ante ſeparatōē. huiꝰ hē que tota ḡ me^li ꝓpoſ
to^m me^li dicit eſt manifeſtū. ag. de qua ꝓb ſ. ſ. ſ. eſtimetur ſic ḡcludē cogis ſicut de reſi
me^li ſcdō ad ꝓ. ag. ē nūc autem eſt ḡclusū

oſtas duabz lineis alia rationali alia n⁹ reſiduo adiacaz ut reſiduo
**aliqua ſ̄ eaz tm̄ ſi ſint to^m inde ꝓpoſitarum potentius linea ḡnita n
qua^m hec ut tota ꝓcantis in longi^ne ſint z inde to^m poſite ratio^li hec i longi^ne
ſurabile qd̄ poſitū erat dicetur reſiduū. Si ū lia adiacēs poſite ra^li ꝓcet
longi^ne dicetur reſiduū ſcdm̄. Qz ſi ſint uez in^li poſite in longi^ne in ḡmē
dicetur reſiduū z^m. Si ſint tota lia potenti^or adiuncta aug^to qua^m hec ut
in ḡmē^lis cadz qz to poſite ra^li ꝓcz in longi^ne nūcupabitur reſiduū ḡm. S
uez lia adiacēs poſite rationali ḡmūez in longi^ne uocabitur reſiduū ḡm. Qz
ſint uterq; poſite hec in^li in longitu^ne in ḡmē^lis appellabitur ḡm. abm̄ reſtat
bm̄ ꝓcē reſiduū facile nos abſoluet m̄ benedicto ꝓ ordinē oim̄ ꝓcedentiū

eſtendi ꝓnūm manifeſtissime nā in quali ꝓpoſitōe bmodi ſi maior ꝓpoſitio
lia reliqua et reſiduū ſimilis ſpēi et ꝓz ex diffinitōe tam bmodi ſ̄ ḡ reſiduoꝝ ſpēi. in
nibz reſiduoꝝ in ſtrictioribz ſit in quarto ꝓpoſitū. a. ra^lis poſita cū ḡmē^lis in longi
ſimarum. bc. ſit qd̄ c. nulle quadratis diuiſus in. f. nō adiacēs z in quadratis. a.
ꝓpoſ quarto lic. bc. ad quartum lic. cd. ſicut z. ab. f. erit ꝓ blim ꝓpoſ. a. cd. ra
poſitum cum ita ſit. cb. potenti^or. cd. quarto lē ē adiacēs in longi^ne qd̄ ꝓpoſitū erat in
ſtrictioribz bmodi eſſet ex diffinitōe lia. cb. ē reſiduū ꝓpoſitū

Residuum 2m parcsiat Ad habend residuu 2m sic .a. ra lis posita ei q̄ dans mihi
.cd. & sit quadratum .cd. id quadratum .bc. sit ut .f. ad .e. erit .bb. residuu 2m q̄ dicitur
subtras i posteas no sibi vendicabit a domo & repercutit indigne

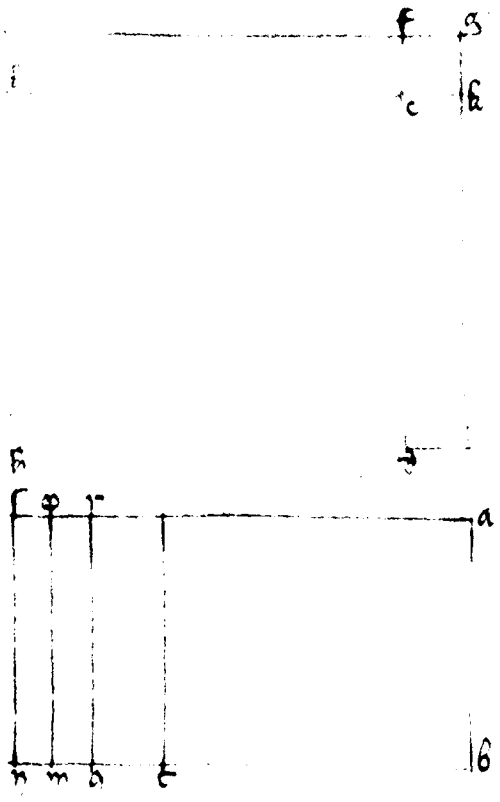
Residuum 3m psequitur residuu 3m sic habetur posita ut dus .a. ra mihi quadrato
duplo m. f. no quadratum & g. quadratum assumpto aq. h. nullo pmo sit quadratu lie .a.
ad quadratum lie .bc. sit ut .h. ad .e. & quadratum lie .bc. ad quadratum lie .cd. sit ut .e. ad
.f. erit & oppositum sicut & totus aqule domum 3m lia .bb. residuu 3m

Residuum 4m inuenit hic sicut in inuentione residui 2i sic lia .bc. dicitur lie .a. ra
posite nulli .e. quadratus sit duplus m. f. & g. quadrat loci no quadratus sit q
quadratum lie .bc. ad quadratum .cd. sicut .e. ad .f. & totus ex dicitur iam .bb. ce residuu 4m
sic cor que in inuentione domou q̄ dicitur ostendit sicut

Residuum quintum demonstrare Cum residuu 4m inuenire libuit et lia .cd. dicitur
.e. ra posite in longitudine sicut erat in inquisitione 2i & est nullus quadratus .e. duplus m. f.
quoniam neuter quadratus sicut in premissa erit quadratum lie .cd. ad quadratu .bc. sicut .f.
ad .e. ex nullo autem dictum liquet lineam sufficit no domou q̄ liam .bb. ce residuu 4m

Residuum 6m demum post septimum residuu 6m sic reperitur et ut dus lie .a. ra
posita & .e. nullus quadratus duplus m. f. & g. no quadratus & est .h. nullus pmo & qui
.cd. sicut .h. ad .e. ita est quadratum .bc. ad quadratum .cd. ut .e. ad .f. & ex dicitur
a .bb. residuu 6m cum si non plane ad tuum assensum ostendit de quo in inuentione domou

Si fuerit superficies linea rationalis cui residuo primo quanta latus eius tetragonum ue
rum est ce residuum Sit superficies .bc. posita ra lis & residuo primo .bc. dico q latus
quadrati superficiei .bc. est residuu admissum .n. ad iam .bc. a .cd. sit quia ra cui .bc.
sit commensurabilis & ex quo dicitur .bb. ratus in longitudine & .cd. in potentia .bc.
lineas in longitudine duplas .g. & in potentia .h. e. & .cd. .bb. duplas ergo
.f. .cf. sit .cd. meo loco ponatur & quia ex .bc. & .cd. ambe sit ratus in longitudine tantum
quare .bb. & quod dicitur ambe sit ratus in longitudine tantum quare lie .fg. est
commensurabilis .ab. & quia quelibet duarum superficierum .af. & .gd. ratus sit quadratum .g. lineam
quale superficies .af. & quia ratum non commensurabile ei cui latus ratum in potentia tantum
quare .bc. & .cd. non sunt commensurabiles in longitudine sed in potentia tantum
quare lie .ab. & .bc. incommensurabiles in longitudine sed in potentia tantum
quare .ab. & .bc. sunt duo lineae ratae in potentia tantum incommensurabiles in longitudine



cius

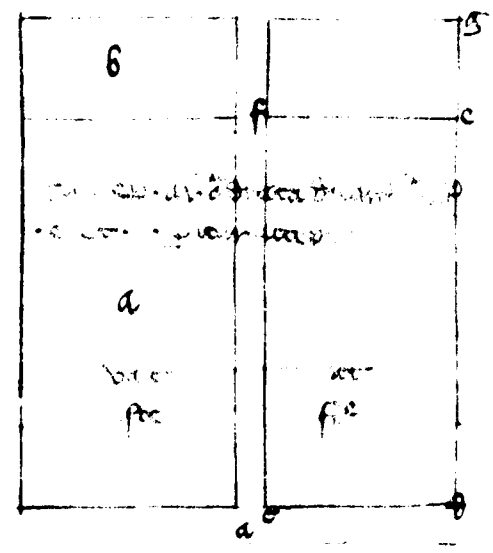
1 ad liam rato les superficies equalis quadrato residui applicate ad totum latus residuum primum ee hec est hec·G· sequentes sunt huius·G· precedentium huius·i· primi hec z modo quia superficies·ef· adiuncta ad liam rationalem ab·eat quadratum residui ad se·x· erit eius latus ad quod·z· de· non residuum primum / adiunctum·ef· de· quae componit cum residuo·a· primo abscisione vt fuerit residuum se qz ei adiuncta·ef· ef qz quod·gb· bezaz duarum·z· ef· rationalium in potentia tantum incommensurabile ei quod totum·ab· de quae vocatur residuum ad hoc·gh· z adiungatur superficies·gk· quae·gh· erit qz quadratum·gl· de· z quadruplum·gh· est superficies·dc· et z bis quadruplum·gh· z est superficies·am· adiuncta ad totum·ab· cui duplum quadrato·gh· et qz et residuum ar quod·-bm· z·a· habens in longitudine superficies bo·bn· sit cubus quadratus·gs· quod potest hoc est rationalis z prima·la· rationalis in longitudine totius·la·bq· est rationalis p·g· duplum·n·cn· p equale in·q· z duplum·ar· commensurabile·ab· et ex quinta·c· et· cubus·bq· similiter superficies·an· sit cubus quadratus·gh· rectus· quod accepto alue superficiei duarum linearum·gk· de· et·fe· z superficies·ar· cubi alueato·ue· de· alue·g·ch· et quinto·a· z superficies residua ex·an· alue est·cf· cauendus duplo latus figure ex·bf· in·fe· et quinta quinta ue·bf· et·z quod quinta cum qz ex quinta superficies·bg· multiplicatus in quadratum·am· alue·ar·cn· z·an· quod

mis sta residuo ornéfiumbilis vpa quoz medio rozdine est idem residuu

mis sta residuo mediali ḋcans est sub pmis to rozdine residuu me le

i ha aliqua hec mi ḋcta vpa quoz & ha mez

rnalinea ḋcans hz orth qpa me le est q ml qpones mediale



mns lia cōmensuria lis sice cū mech ostia mele est cū mech ostiues ll
[illegible] quor ponellam aliquam stare q̄a que gmech gponit mele m mē m lor
t pō tm q̄ ut dicūt z duc me pmisso sme diffre q̄clubes cam quor q mel gponē m
·n·gm ad pm mom suppficb. l. medialis q̄ p·c·z 2o quor quadrata quar circ·c·z·c· ad·
duc [illegible] rta duar·f·z·b· ad·l· q̄ duo pma nō gaūt q̄ supplo·a· ex·az· nc
stia dcūt nre q̄ dua·l· ex·ic· q̄ ex·az· b·z q mech gponens mele gm ad 2m mot m
resdūt gm· ex·qa· ipaz z ctr· ex·qb· gr·b·z q mech gponens mele ex·gl·

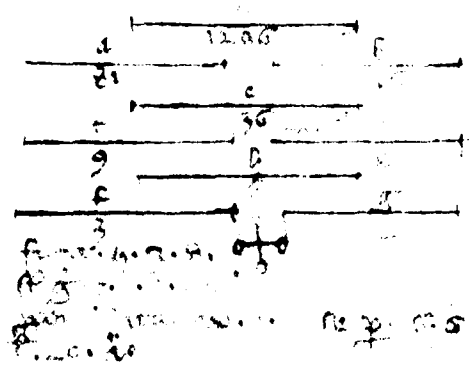
1 de suppficie rat suppficies mel⁹ abscindat lia m relīq suppficie poten
tia diuar⁹ nrōnalīū q̄ resdūt ē lia mor ~ Sit·n·cō suppficies
ex·a·z·b· rat⁹ aqua dcūr z·b· que sit medialis dō q̄ ā potens m·a· resdūt ā z re
lia mor· esto nāz ad·cō·rat⁹ suppficies·ac· q̄ abducta sit tm·c·z·ex· tm̄q·b
·ctr· sit cō·ab· ctr̄z·ctr·rat⁹ id q̄ p·vb· aa·dr· rat⁹ m longine z·b·ctr· me
id q̄ p·2o· ctr·rat⁹ m pō tm est q̄ ex diffne ad·de· resdūt pmū ā tm q̄ p·bc
lia potens m suppficie·ac· z id m suppficie·a· b̄ equalem z resdūt ā lia mor q̄ p

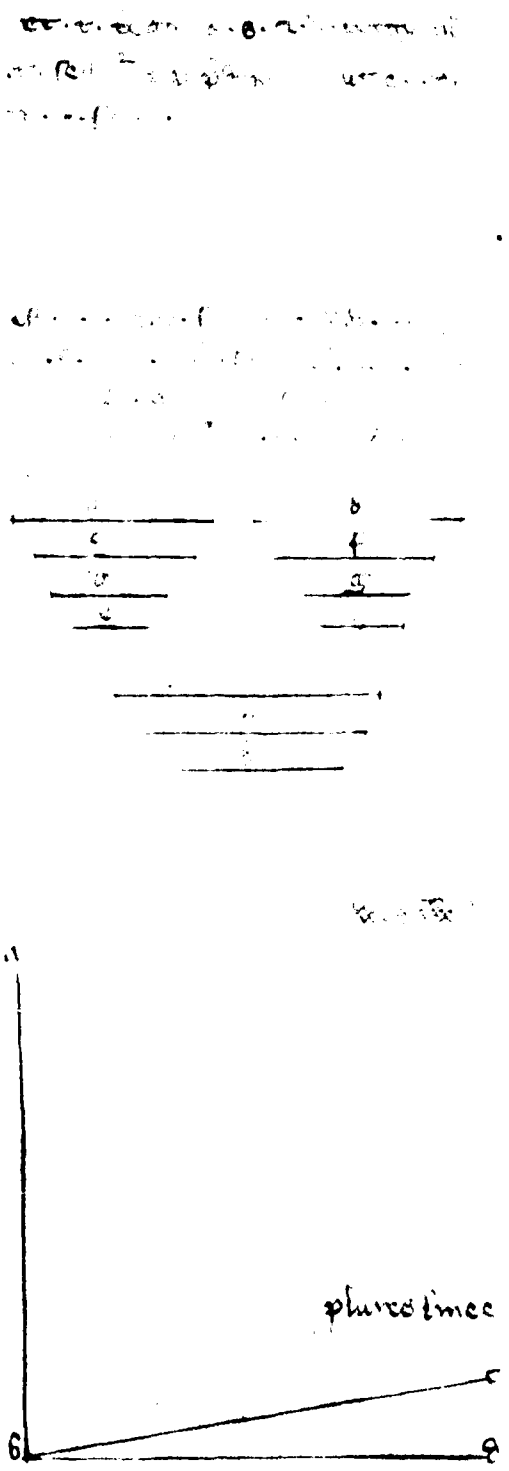
1 de suppficie medialī suppficies rat⁹ detrahat lia m relīq suppficie pot
altitudīi duar⁹ nrōnalīū linear ā resdūt medialē pmū q̄ q mu
componēs mele ~ Sit quor sit cōmissa q̄ latus ctr·n·cō·ab· mel⁹ b· rationa
duo q m·a· resdūm ā potest resm mele pm ā q rat gponens
sit·m·n·gr·equus sit·ab· ctr p·2b· aa·dr· rat⁹ m pō tm z q sit·f·ctr· ctus·b·c
lia ctr· rat⁹ m longine q̄ adiffne et la·de· resdūt 2m ā pm q̄ p·ga·z·gb·
tetragonū suppficies·ac· z id suppficies·a· est resdūm mele gm ā q rat gponēs mele

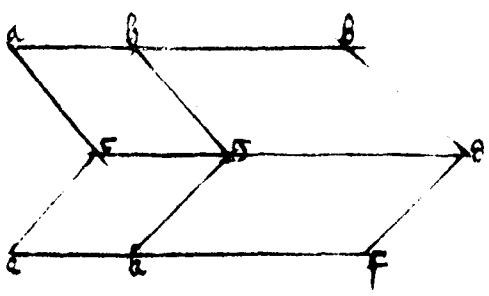
1 suppficies medialis suppficiei medialī detrahat silr q̄ relīqua tota
melissima⁹ que m rōne pcīqua potest altitudīi ctr duar⁹ nrōnalīū q̄ ex
resdūm medialē 2m ā q mel gponēs medialē ~ Si aquar⁹ pmissar⁹ demou
nem detras q̄clubes sme diffrentia q̄ sit·n·cō·ab·z·b· mel⁹ z sit·a· relīq m gme
abscer·n·est·a· mel⁹ ex·2l· z ctr·ctus·c· q̄ ·a· z resdūt medialē 2m ā q mel gponēs mele rat⁹ q̄ sit·ex·cqualis·ab· ctr q̄·2
gb· rat⁹ m pō tm q̄ cam⁹ quor q̄ sit·f·ctus·b·ctr· ex· rat⁹ m pō tm z q
m gme tot⁹ ex·ab·c·f·m gme·c·ex· id q̄ p·ma ē z id·ex· m q
ex· q̄ ad ffne ad·de·c· resdūt 2m ā tm q̄ p·bb· z q· latus tetragonū suppfic
z id suppficies·a·z resdūm mele 2m ā q mel gponens mele

tarū nrōnalīū que sic resdūt z post quām subsequētes u
dus cō z ordine subēt nypo z resdūo q̄ binomio tm̄ z ordine
est possibile ~ Sit·a·q̄ hanc·cōs·q̄ resdūt tālis·q· hc nra cās cam sequentes
diffrentiarū abundēt nulla tm̄ deficiat ex sub duab⁹ nr sub pluribus hanc·q
rat⁹ que sic resdūt z ctus·q· componēs z q cuiq⁹ spēi resdūt sit·ut ad omnēs spēs b
nr̄ potest z iam dnā ex singl⁹ resdūt z binomiū cuius pōt resdūi z binomiū z quar
am suppficies cōtēs aut⁹ resdūt z suar·q· commensurabilē tm̄ ad tm̄ ad dm rat⁹ nr̄ cōtē
ūta ad mbra ex·qz·z·q· cam sequentib⁹ sit·a· resta cata resm pm z 2m z binomiū u
2a pars q̄ sit cōb·mo si cath ha sit ex pmis binomiū z resdūt sit·a· cui⁹ quadrata ad
ad dm rat⁹ sit·z·bb· ex·az ex·qe· ha·cō· binomiū q̄m z cetera resdūt m q̄m 5o binomiū p
m suas binomiales portiones ad pmetū·e· sit·ex maior cor⁹·ex· que erit rat⁹ m lon
p diffnē m q̄m ā est resdūt q̄ adiungatur ei tot⁹ ex· q̄ ē q̄ absq⁹ pōt resdūi q̄m ex
diffne·cor· rat⁹ m longine cum tot⁹ sit tot⁹ duar⁹ tot·cor·z·ex· rat⁹ m longine
·q· ha·cor· rat⁹ m longine ex q̄ ha·de·q rat⁹ m pō tm q̄ sit p q possim mior po
ā ex p·gb· ha·dor· resdūt z q̄ tot⁹ erit rat⁹ m pō tm q̄ cum absq⁹ esse ha cō·s
p gb· q̄ ut clarius videre cōs suppfies·bb· adiuncta ad dm ratem be equat quadr
dr̄ ha·dor· sit rat⁹ m pō erit tot⁹·ha·cō· rat⁹ m longine ex q̄ dr̄ ha·dor· sit resd
·q̄· ha·cō· resdūm pm ad se nō ex q̄ ha que dr̄ resdūi sit m rat⁹ p·gz·

Nec q̄ resdūi dicatur ulla ne nrōnalīū q̄ post eam sit resp
sub cō binomiū ā sub cō z ordine q̄ linus certus lineas nrōnalīū
nomiū sequitur cum q̄ possibile sit lineas nr̄ altas sarem m infinitū
nō est possibile ullam cadē q̄ ea que precēdit mō z ordine ee. Sunt p
ctōr binomiū q̄ ex rōnē resdūi ex binomiū cuius nomina sunt rōnalēs dequib⁹ minor sectō determinans z ex q̄ sit ex mel⁹ binomiū







Corpus est qđ longitudinē latitudinē altitudinē habet cui⁹ ex⁹ superficies linea erit sup superficiem est que cum singulis 9 extimalibus lineis in ea superficie extensis angulos rectos facit linea ad hanc superficiem perpendicularem esse dicam orthogonaliter insistere

Intelligitur ex ab. sit planū rectangulum a. ymaginemur in aere .b. moueri no asymeto .b. ducendū in eod plano ut .be. dd. et quidē ad sū 9 recta sit .ab. 9 .b. ducta .ha. bg. et 9 quadrata ad ha generata asymeto .b. in plano illo angulū rectū faciat recta super ad easdem superficies in qua generate sūt illelic utr. be. et dd. ad quibus recta ponitur extime angulū

Superficies 9 erit sup superficie est quoties linee que est 9 ris illam superficiem

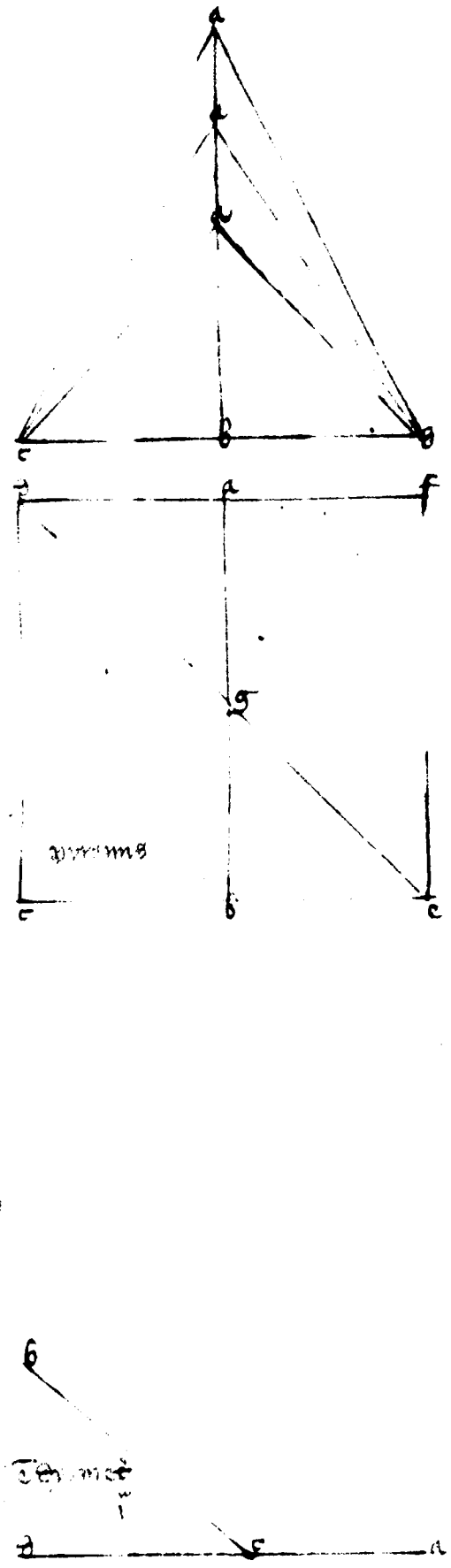
Due perpendiculares communes sectionales superstant que recte extremitates angulum in ea superficie sitę sint

Verbi gr ymaginemur superficie abcd. equidē sup superficie ebef. recta linea sup latus eb. et medietatē ipsius eb. et circa ipsum punctum ambo linea recta circumferatur quinetus quo ad hanc eb. perpendiculares due ipsa in superficie ebef. que sit gh. ab in superficie abcd. que sit eh. si 9 angulus quem extremitates hec due ad eam rectas utrobi. bh. et gh. est rectus superficies abcd. dicetur ortho⁹ recta sup superficiem ebef.

Superficies equedistantes

Si vtrarum ptem vtrarlibet nō contineat et si in vtrarlibet vtrilibet

dicetur esse vbi dues 9 extra eas plane superficies ad se equedistantes mutuo ad easdem extremitates


a
b
c
d
e
f
g
b
c
b
c
6
d
e
a

duo qui in una superficie sint ad unum punctum angulum rectum continentes. Duo anguli plani angulum solidum facere nequeunt sicut nec due linee nequeunt superficiem constituere. Angulos quoq; planos solidum angulum continentes in eadem superficie esse constat. Si in duas quoq; rectas linias plani puncti existentes angulum non constituant. Eadem ratione applicari. Similes similium figurarum corporum rotunde siue sunt columpne siue

pyramides quarumcunq; bases similes habentes siue sint pyramides siue bases illarum duarum columpnarum rotundarum siue duarum columpnarum rotundarum siue sint columpne siue

ad unum punctum siue basis ille due columpne siue pyramides similes ad inuicem esse

nunc non potest esse in plano potest in sublimi est impossibile

eius sit in plano pars superficie circuli a. n. est possibile sit pars eius due ad. ac. sita plane et pars eius g. ce. eb. sita in sublimi et ponatur due ac. in plano in quo sit circulus a. b. cuius ue. sit linia que est la. ac. due vero

ep eadem parte diuisa ab inuicem ad impossibile

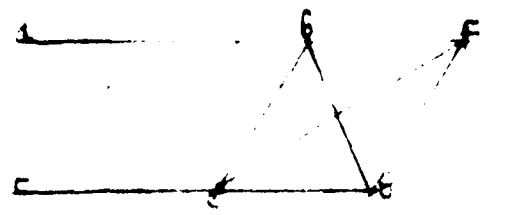
Nunc due linee due quarum altera alteram secat in una superficie sit superficies omnis

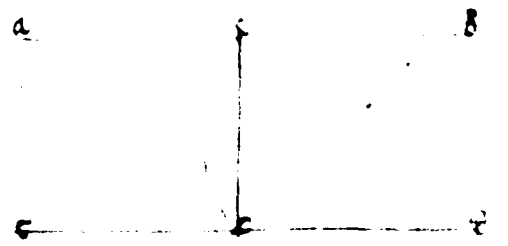
circulus in una superficie totus existat

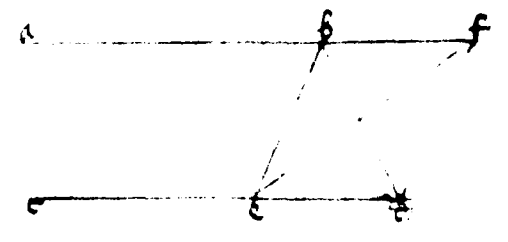
in puncto c. dico eas esse in superficie una. Quoniam enim angulus ge est in superficie una. n. puncto e. quoniam due linee ed. et ec. sunt in superficie una. et quoniam ec est in superficie una. et est pars eius. f. in linea ed. et punctum g. in linea ab. et due linee fg. ge sunt impossibile non esse in eadem superficie. Quare in sublimi quidem existunt omnino. Quoniam autem pars eius est in sublimi. et pars eius similiter in sublimi. et delinet se sit impossibile. Quoniam igitur due linee ge et ec quarum in puncto e. communis est. quoniam angulus cfz. est in superficie una. Eodem quoq; modo ostendetur omnis figura

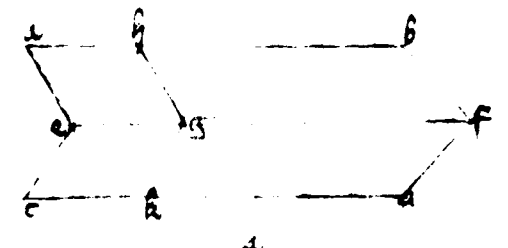
Nunc due superficies secundum circuli diametrum secantes se inuicem secant se secundum circuli diametrum est linea recta

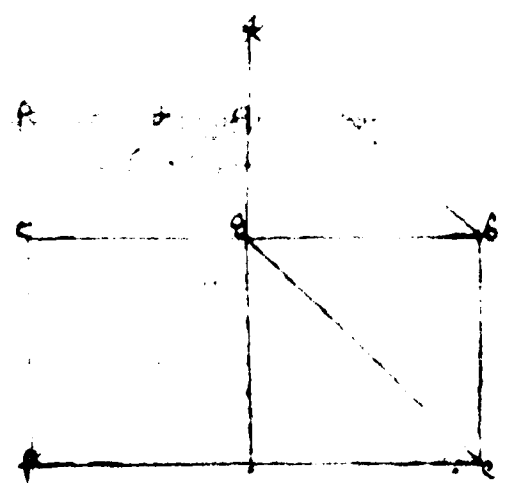
superficies mediante ab et ad diametrum sunt recte due superficies plane. ab. et ed. secundum diametrum ad. quoniam igitur communis est ad. quoniam igitur ad diametrum circuli est. n. duo puncta. e et f. et ab diametrum

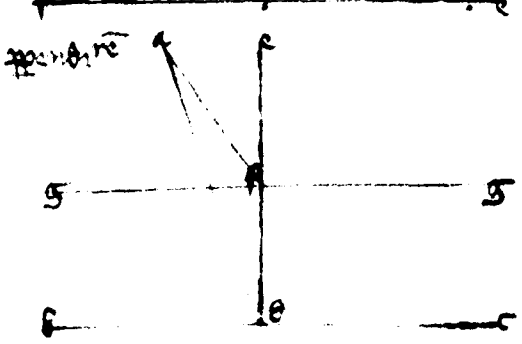










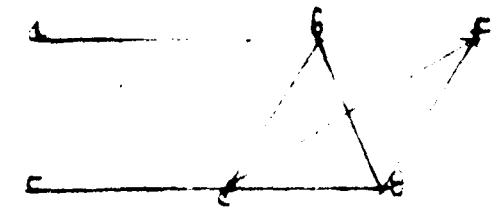


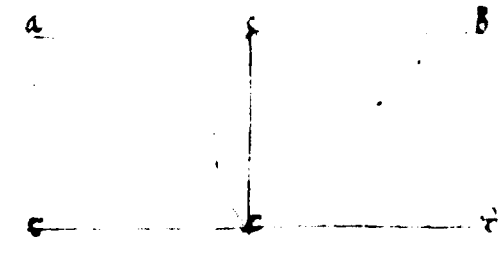
Imagine quelibet due linee ab. et cd. equedistantes sibi. Dico quod nulla superficies potest transire per vnam illarum quin transeat per reliquam. Quod probatur. Sume due linee ab. et cd. equedistantes sibi. et sit superficies transiens per ab. que secet superficiem in qua sunt ab. et cd. secundum lineam ef. Et sit punctus g. in superficie in qua sunt ab. et cd. extra lineam ef. Et ducantur a puncto g. due linee ad lineam ef. que sint ge. et gf. Et quia linea ab. est equedistans linee cd. ideo angulus gef. est equalis angulo gfd. Et quia angulus gef. est equalis angulo gfd. ideo due linee ge. et gf. sunt in superficie in qua sunt ab. et cd. Et quia ge. et gf. sunt in superficie in qua sunt ab. et cd. ideo superficies in qua sunt ab. et cd. transit per punctum g. Et similiter probabitur quod superficies in qua sunt ab. et cd. transit per quodlibet punctum superficiei in qua sunt ge. et gf. Et quia superficies in qua sunt ab. et cd. transit per quodlibet punctum superficiei in qua sunt ge. et gf. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ge. et gf. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ge. et gf. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd.

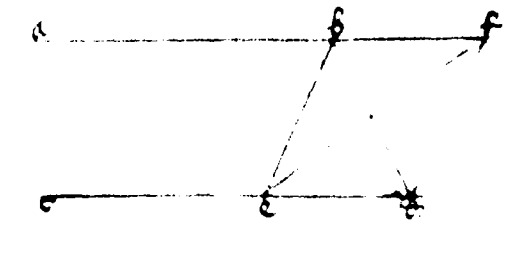
Imagine quelibet due linee ab. et cd. equedistantes sibi. Dico quod nulla superficies potest transire per vnam illarum quin transeat per reliquam. Quod probatur. Sume due linee ab. et cd. equedistantes sibi. et sit superficies transiens per ab. que secet superficiem in qua sunt ab. et cd. secundum lineam ef. Et sit punctus g. in superficie in qua sunt ab. et cd. extra lineam ef. Et ducantur a puncto g. due linee ad lineam ef. que sint ge. et gf. Et quia linea ab. est equedistans linee cd. ideo angulus gef. est equalis angulo gfd. Et quia angulus gef. est equalis angulo gfd. ideo due linee ge. et gf. sunt in superficie in qua sunt ab. et cd. Et quia ge. et gf. sunt in superficie in qua sunt ab. et cd. ideo superficies in qua sunt ab. et cd. transit per punctum g. Et similiter probabitur quod superficies in qua sunt ab. et cd. transit per quodlibet punctum superficiei in qua sunt ge. et gf. Et quia superficies in qua sunt ab. et cd. transit per quodlibet punctum superficiei in qua sunt ge. et gf. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ge. et gf. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ge. et gf. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd.

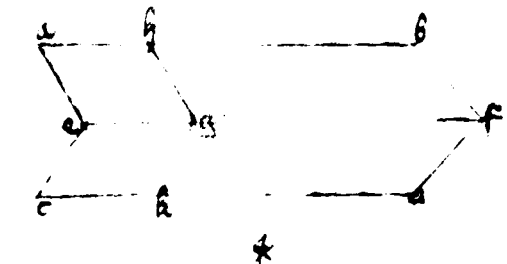
Imagine quelibet due linee ab. et cd. equedistantes sibi. Dico quod nulla superficies potest transire per vnam illarum quin transeat per reliquam. Quod probatur. Sume due linee ab. et cd. equedistantes sibi. et sit superficies transiens per ab. que secet superficiem in qua sunt ab. et cd. secundum lineam ef. Et sit punctus g. in superficie in qua sunt ab. et cd. extra lineam ef. Et ducantur a puncto g. due linee ad lineam ef. que sint ge. et gf. Et quia linea ab. est equedistans linee cd. ideo angulus gef. est equalis angulo gfd. Et quia angulus gef. est equalis angulo gfd. ideo due linee ge. et gf. sunt in superficie in qua sunt ab. et cd. Et quia ge. et gf. sunt in superficie in qua sunt ab. et cd. ideo superficies in qua sunt ab. et cd. transit per punctum g. Et similiter probabitur quod superficies in qua sunt ab. et cd. transit per quodlibet punctum superficiei in qua sunt ge. et gf. Et quia superficies in qua sunt ab. et cd. transit per quodlibet punctum superficiei in qua sunt ge. et gf. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ge. et gf. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ge. et gf. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. ideo superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd. Et quia superficies in qua sunt ab. et cd. transit per totam superficiem in qua sunt ab. et cd.

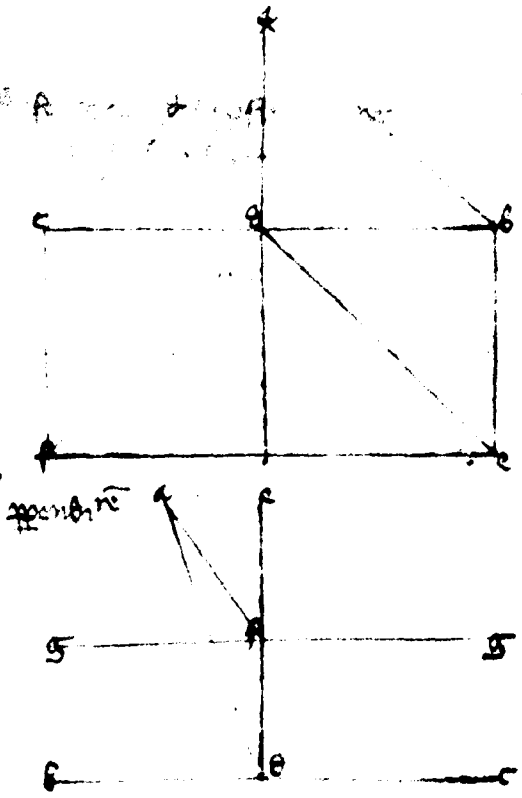
duo qui in una superficie sita ad unum punctum angulum faciunt. Duo anguli
plani angulum solidum facere nequeunt sicut nec due linee nequeunt superficiem
claudere. Angulos quoq; planos solidum angulum continentes in eadem superficie
esse nec eos in diuersis quibuscunq; duabus retis lineis planum figurantes angulum non esse
rectilineum applicari. Similes sunt figure corporee rotunde siue sint columpne si
pyramides quadrangulares triangulares basium sunt pares. Proprias in duabus
pyramidibus rotundis et duabus columpnis rotundis sunt pares quia omnes ca
ad diametrum siue basis ille due columpne et pyramides similes ad inuicem et di
Nec recte per nec in plano per in sublimi est impossibile. Due lie ab. per
eius sit in plano pars superficie circuli sit. n. est possibile sit pars eius que ad. sit
plano et pars eius que ad. eb. sit in sublimi et perducatur linea ac. in plano in quo sit
ad. b. circuli ut dictum est que est lia. ac. due autem
ergo ad per quam abscindatur ab et in puncto c. Due
Nunc due quarum alia aliam secat in una superficie sit. Omnis cir
culus in una superficie totus existit. Due due lie rec. ab. et. cd. sint
in puncto c. dico quod est in superficie una circulum triangulus. Si enim non
. n. punctus. f. in lia. cd. et punctum. g. in lia. ab. et ducatur lia. fg. quia in puncto
est. cum in plano per in sublimi quia est quare impossibile quia pars simile sit in
et pars simile in sublimi. Similiter impossibile. Quare non in diuersis superficiebus
triangulus est in superficie una. Ergo quia due rectilinee
Nunc due superficies sibimet secantes communis sectio est linea recta. Si plane
superficies mutuo se dimidiantes sint recte due superficies plane. ab. et. cd. sibimet
secantes. Si ergo earum communis sectio non est linea recta esto. n. duo puncta. e et. f. et
que coniungatur per eum rectam que sit. ef. Si igitur lia. ef. est in vtraque duarum superficierum. ab. et. cd.
in communi superficie in qua recte non simul per latera. Quare linea que sit. ef. simul et due lie rec. et
et. efg. habentes duos communes angulos quod impossibile. Si. n. que recte lie dicuntur superficies
Si fuerint lia orthogonaliter ab insistente duarum linearum. ab. et. cd. per communem
sectionem earum recte se secantium qui ad earum superficiem perducitur erit. Due lia. ab.
orthogonaliter existens superficiem duarum linearum. cd. et. ef. secantium se in puncto. b. de quibus
per antecessam. Si recte sint in una superficie de. Si. n. fuerint. ab. et. cd. et. ef. due erunt equales et
et. bd. equales de. in. fb. et. be. equales et perducatur lia. cd. et. ef. due erunt equales et
et equedistantes per. 2a. eiusdem signato recta puncto aliquo in lia. cd. qui sit. g. Ducatur
. gh. erit. ex. 28. p. ex. equalis. gh. Si a puncto. a. tanquam puncto sit. ab. ipsi
perpendicularis lia. ac. ad. ae. af. ag. ah. erunt ex. 4a. p. ac. equalis. ab. et. ae. equalis
et. p. 8. eiusdem erit angulus. bag. equalis angulo. abh. Si ergo ipsi ne
pendiculares ad. bh. quia quoniam. gh. simili quoniam modo probabis eandem et pendiculares ad omnes lias protractas
in. b. in superficie duarum earum. cd. et. ef. Si ergo ipsi ne
in qua sunt. cd. et. ef. Si igitur ipsi ne
Si sint tres lie quarum. 2. eorum in eadem lia quecunque orthogonaliter in
tersecent. 3. tunc in eadem superficie site erunt. Due lia. ab. orthogonaliter
tersecent tres lineas. bc. bd. be. angulum se tangentes in puncto. b. quarum nulla sit
applicetur quod ab. 2 ac. simbricem faciat in puncto. b. protracte. n. se tangentes. Si
. bc. bd. be. sit in una superficie. Si igitur dicatur equalibus earundem. bg. que sit in una superficie et
Si lia. bg. non sit in eadem superficie duarum. bc. et. bd. si enim fuerit in plano et ab in sublimi et
in superficie in qua sunt. ab. et. bd. si protractum fuerit et illam in qua sunt. bc. et
ac. Si ergo simile quod. Si earum communis sectio lia recta et non sit. bg. ex. Si ex premissa lia. ab. 2 ipsi
similem duarum. bc. et. bd. equalis ex. Si igitur ipsi ne ad liam. bg. sit angu
lus est rectus. Si ergo et angulus. abg. sit rectus ex hypothesi simile impossibile. Si igitur non sit equalis
Si fuerint due tres sup una superficiem perpendiculares eas equedistantes
inuicem est. Due lie ab. cd. ipsi res ad unam superficiem duo eas et equedistantes
protrahatur. n. lia. bg. exeuntes ex puncto. b. duo anguli. abg. et. cbg. recti Si. Due lie. ab.
sint in superficie una ipsi Si equedistantes per 2am ipsi. 28. p. non sit ab et in superficie una sit
a puncto. b. sup liam. bg. in plano cui ipsi in sistente. ab. et. cd. protrahe orthogonal











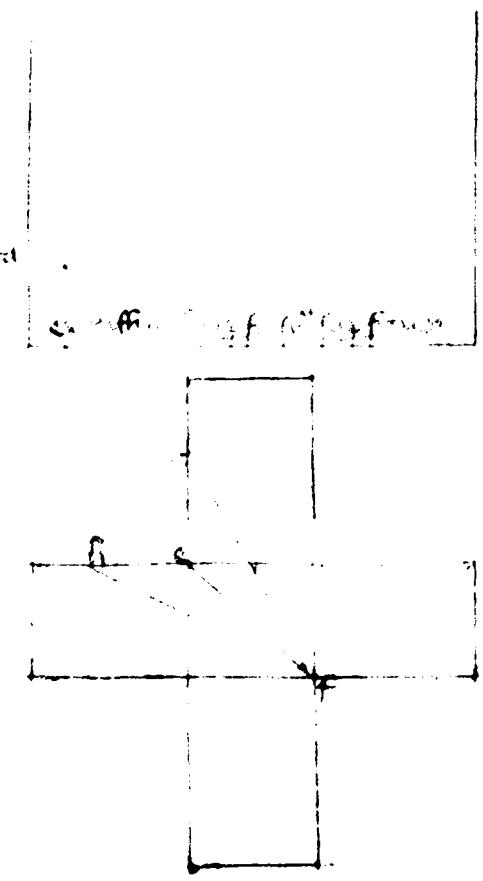
est impossibile. ⁊ hoc .n. possit ⁊ ut due lie com sub superficiei sup primetu pun
misterint superfies in qua vte penes sit ꝓtracta. ꝓducti usq; ad sectu
bate hnee penes misterint erit ⁊ ꝓ am hui⁹ 3b cas sectio lia rea ⁊ q; ex diffie
diculariu a ꝑsectione ad me .inguli rem s. ut .inguli rectus sit prus .inguli rea q; ⁊ impole
ad demoustrad ⁊ impole duas lias sup unu primetu ad eand superficiem ee penes
hmo impole ee duas ab uno eode ꝑ primeto ex superficiem signate ad eand superficiem ꝓtracta
ee penes. s. n. ho fidei vte erunt equedistantes ex 6a ꝓ ⁊ impole ex diffie lie equedistan
stat ꝙ ex hoc ꝙ s. .alig superfies plana ad planu superficiem ortho sect ⁊ ab alio primeto
superfi ad superficiem sectam penes ducta in omnes eas sectiones eam cadet rectu ⁊ aliquis ad eas
to secunt superfi ad ges eas ad ges eas sectione penes ꝓtha ut duc .12. ꝑ ⁊ a primeto in ea
cadet ꝙ ꝑsectione ad penes ad eam aliquem sectione in superfie secta educta ut duc .q. ꝑ
ꝙ ex diffie superficiei sup ad superficiem ortho erit .inguli ꝙ gemet hnee due lie penes rectus
ꝑ eam hui⁹ plu hui⁹ pchdicularis est penes ad superficiem sectam ꝙ ab uno primeto ꝓtracte ⁊
penes ad eand superficiem q; ⁊ impole relinqui rectu penes.

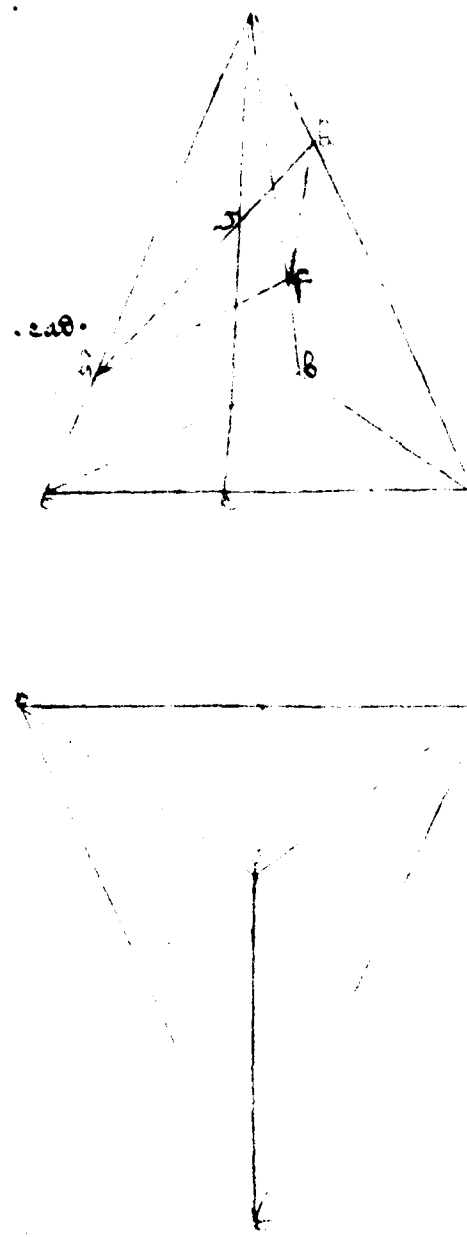
1 linea una sup duas superficies assignatis ortho misset ille due superfies sic in
misterint in quibuscuq; ptis ptinuitur nullo contextu. posita .n. lia una duabus
superficiebus ortho misse si poterit illas superfies secuerit in eas sectiones que ꝑ eam et lia rea primetus
ad signetur aquo due lie in istis duabus superfiebus ad eam illam que ipis penes sup stat ꝑducant et
stat ꝙ eam bus eplis ⁊ penes. hoc vtiq; eam lia ut duo ri anguloꝝ qui sup penes ꝙ sistunt est
ut ꝑ ex diffie hnee superficiem penes stantes hoc impole ꝑ .32. pcti⁹ quoz 6 ia.

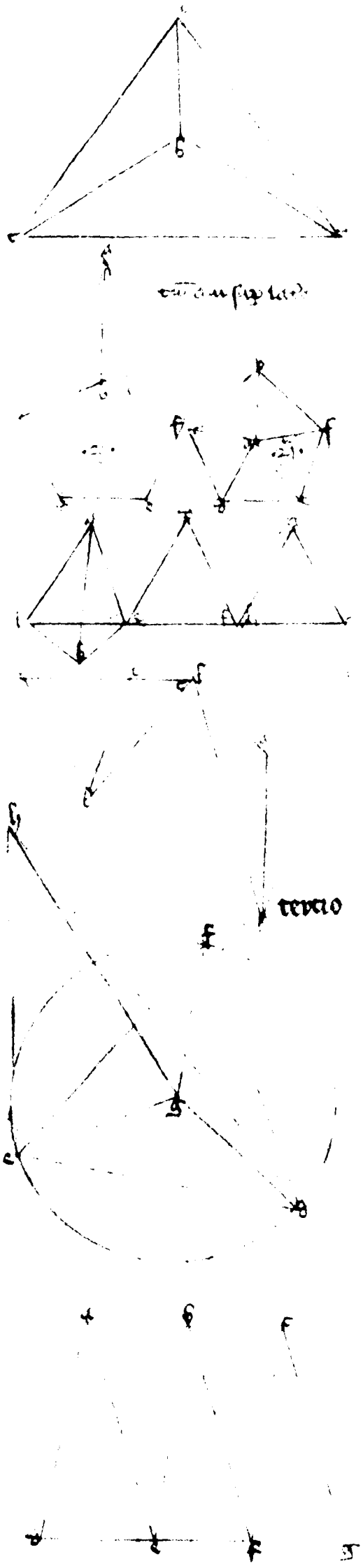
1 sup duas superficies equedistantes lia rea cadent que ad aliam eam penes
sit rta quoz penes erit ad reliquam. posita .n. duabus superficiebus equedistantibus
cathetus lia rea ambas penetrans que aliam eam penes sectz do q; eas lia rea que superfi penes
stat sic .n. superfies una secas posteas superfies equedistantes sup eam penetrante eas erit
sectio huius superficiei secantis ⁊ alterius priore vide illius cui lia penetrans com penes misse
ormens angulum rom q; ut lia penetrans ex diffie hoc penes ad superfiem si ꝙ alia ꝙ sectio
ipi⁹ superfi secantis ⁊ reliqua duaꝝ hui⁹ sectaꝝ q eas lia penetrans no ormis angulu rom
ex hypothesi petitur ꝑ ut ille due omnes sectiones ns alteram ꝑ ee ꝓtracte nec gerant
⁊ superfies que posite sit equedistantes nec gerent ⁊ q; hoc impole erit ille angulus rectus
eod q; no erit quare a superfie eas equedistantes superfies sup eam hui⁹ secantes ꝙ ex hui⁹ .
1 fuerint due lie se contingentes alterutrie equedistantes due alie se contingentes
alias duabus se contingentibus in alia superfie una ad eas lineas ipis
in due superfies nulla ptis vtrinq; ꝓtracte posse occurrere. due lie ab
angulu ꝙ contingentes in puncto .a. equedistantes duabus alis .be. ⁊ .df. se angulare gen in
.d. ⁊ no sint in superfie una dico eas superfies in q; ꝓtem ⁊ q; ꝑ hanc ꝓtractus nullo occurrere ꝓtha
⁊ .n. a primeto .d. ꝓ ut duc .q. penes ad superfiem duaꝝ hui⁹. ab. ⁊ .ac. sic q; .dg. ⁊ a primeto
duc ad .gh. equedistans .ab. erit ex diffie duo quor anguloꝝ .dgh. d gh. rectus ⁊ p.
lia .df. equedistans lie .gh. ⁊ lia .ge. equedistans lie .gh. ex ꝓpositu ꝓtr .2. ꝑ duo
eis g ꝙ .dg. erit rectus q; ex hnee lia .dg. erit penes ad superfiem duaꝝ hui⁹ .be. .df. q; rta cadet
⁊ ex ꝓpositu penes ad superfiem duaꝝ hui⁹ .ab. ⁊ .ac. ex hmoi a liquet ꝙ appm ⁊

1 due superfies equedistantes una superfies secet omnes eas sectiones ei
equedistantes. Constat quod ex 2a ꝑ una superfie quaslibz duas superfies equedistantes
secantes omnes eas sectiones esse due lie rectas que q; ambe sint in superfie secante si rte no
me equedistantes ponant ad ꝙ hui⁹ punctum q; tre erit vera. ut hui⁹ actz ib primetus ste
terra, illam sic nu qui q; hui⁹ illaꝝ quin sectionu sit in una duaꝝ superfiei secantiu ⁊ reliq
sequitur superfies illas que posite sit equedistantes gene ho ad inuicem erunt et eas omnes
ones equedistantes ꝙ ⁊ appm. Ex hac ⁊ hmoi a ꝑ clue q; em hui⁹ similiter .2o. ꝑ. hui⁹ ꝑ
me due superfies tm equedistantes rte quoz erit ad inuicem equedistantes, ponatur .n. tres
superfies quaslibz duaꝝ tm eoꝝ equedistet equedistantes me dico q; no ⁊ rtas eoꝝ equedistantes ad
huc sectiones omnes hui⁹ .3. superfies duaꝝ superfiei quoz in tres secantes erit ⁊ ex hoc
tiones duaꝝ eoꝝ superfiei equedistantes secabo hoc ex .2o. ꝑ rtas sectiones duaꝝ
maꝝ superfiei erit equedistantes ad inuicem ⁊ q; rta gemgnitur se in q; sectione duaꝝ superfiei
superfies secantes, ex hmoi a euidens q; tus q; hoc mo

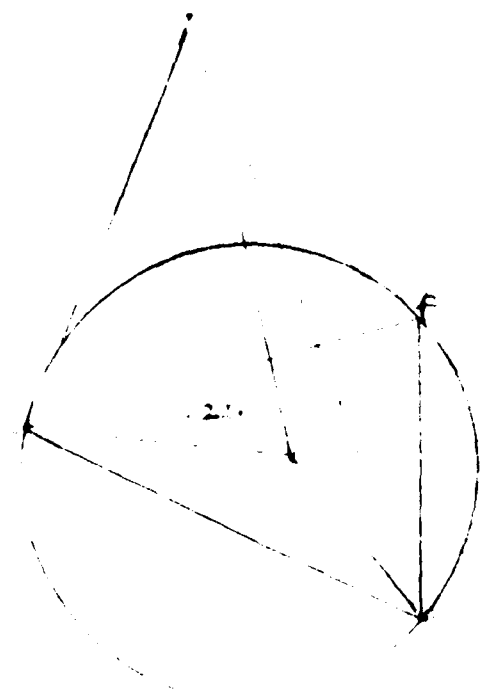
1 superfies equedistantes duas rtas ad eas secent ille circa easdem portiones ad
esse ꝓbantur. Intelligatur .n. due lie penetrantes qualescuq; gemt .3. superfies equed

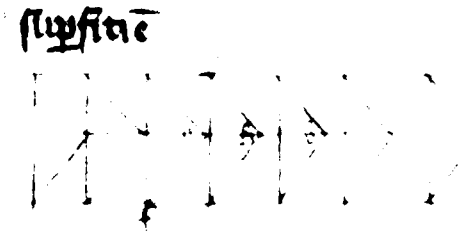


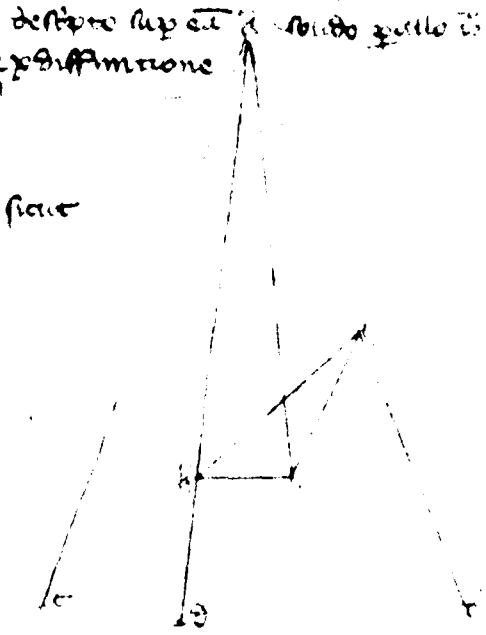


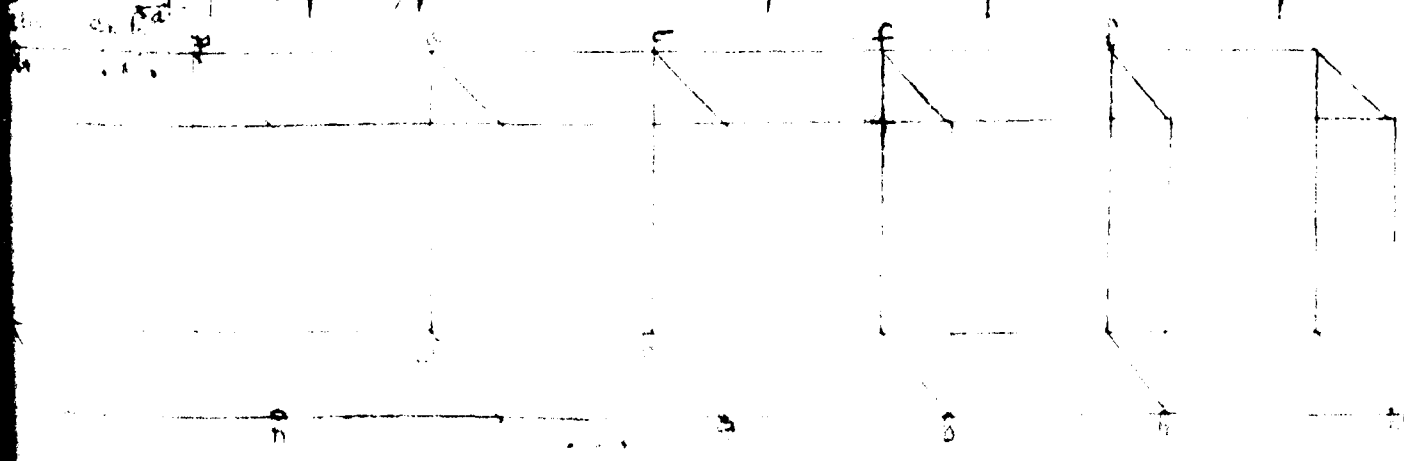


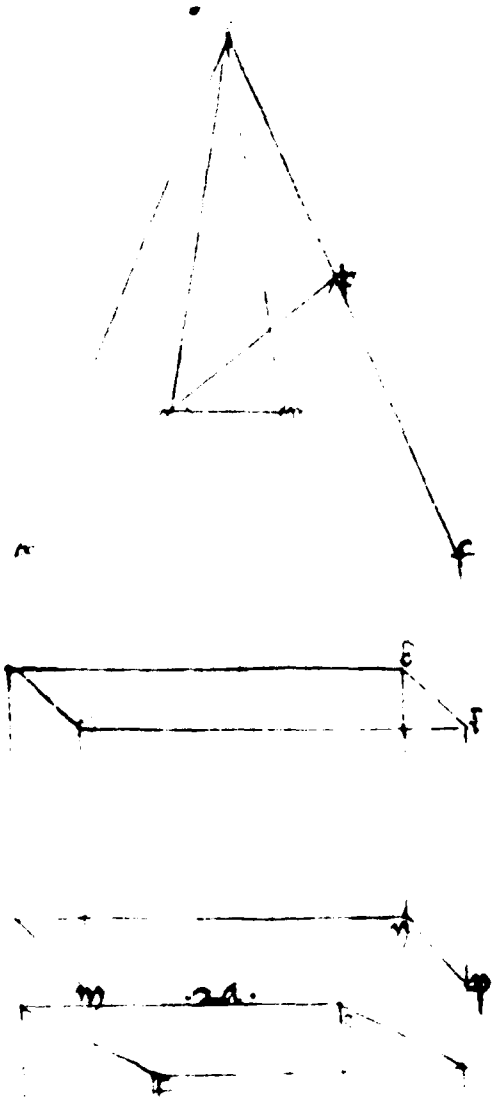
rtes cum .g. .c. angulis cum basibus positis in eade plana
quota) equalem qui sit .c. angulo rectoz angulis basi vicinis
cum sint ex hypothesi assumpta
mares zbz angulis basis se sequat
rones duobz rectis ex .g. et angulis
angulos pyramidem contentis sub .c. angulis
ctis erunt ex .g. et
angulus .a. sublimis in assumptam pyramidem pubz angulis
et rectis constituit
um tangulos pyramidem quam equalem dixerat
ex .32. et tot recti angulis
et rectus et nullus angulos basi applicat
et .g. rectis et tot tangulos pyramidis equales
sumit angulis sue basi cuius omnis sue basis sint tot recti angulis equales
suos angulos duplicatus decies
pyramidem certa
basis ipsius pyramidis assumte
ta que accepta sint maiores omnibz angulis
sa que accepta ut euidenter ostenditur equalibus quibz quot angulos basi habuit
adhuc non sequat ex .g. et
-g. recti et in quibus quo omnis
truce pyramidis assumte continet omnes angulos basi que accepta
tres anguli superficiales quoz quiz duo
cinctis sibi mutuo equis lineis circumdantur. Vertex basibz angulos
los ab illaz lineaz equalium trium subtendentibz triangulum ostendat
Sint .3. superficiales anguli qui sint .bac. cef. hgk. ut supponatur
corpz sint maiores summa .6. lacie eos comprehendat
tendantur eis .3. recte due .bc. ef. hk. ex his et basibz triangulum
sto .n. angulus .bal. equalis angulo .g. et li. al. li. ae. et pthi. m. lb. ler. erit ex
equalis li. ef. ex hypothesi
angulis .bac. dec. maiores
due li. lb. be. maiores
est cuius .ef. erunt due li. be. ef. maiores li. hk. Quare
.bac. et .g. que accepta sint
ste equalis ex hypothesi
.hk. et longiores
ex eisdem due li. lb. et be sint longiores. Ita sequitur ut duo .be. et .ef. que accepta
.hk. at ex hypothesi duo
et due .gh. et .gk. breuiores duabz que sit .lb. et .be. quare ut duo .be. et .ef. que accepta
ribz angulis superficialibz positis quoz quiz duo
ter accepta sint maiores omnibz
tribz istis equalibz qualescuz fuerit solidum angulum ostruit
superficiales qui sit .abc. de
duo cum quibz accepta
m iores
.2. bases et
triangulum
cum
ctis
ta
que
equales
ex
.22. ut
maiores
.hk.

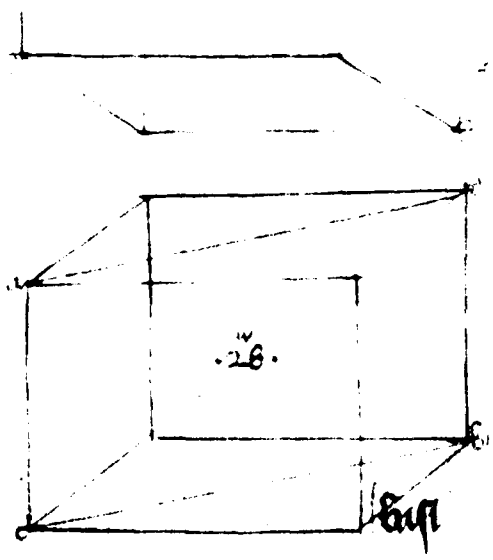








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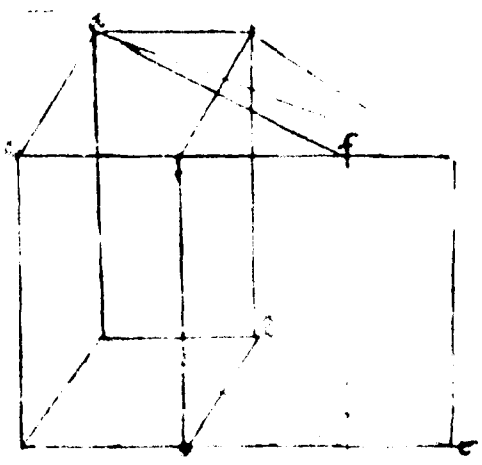
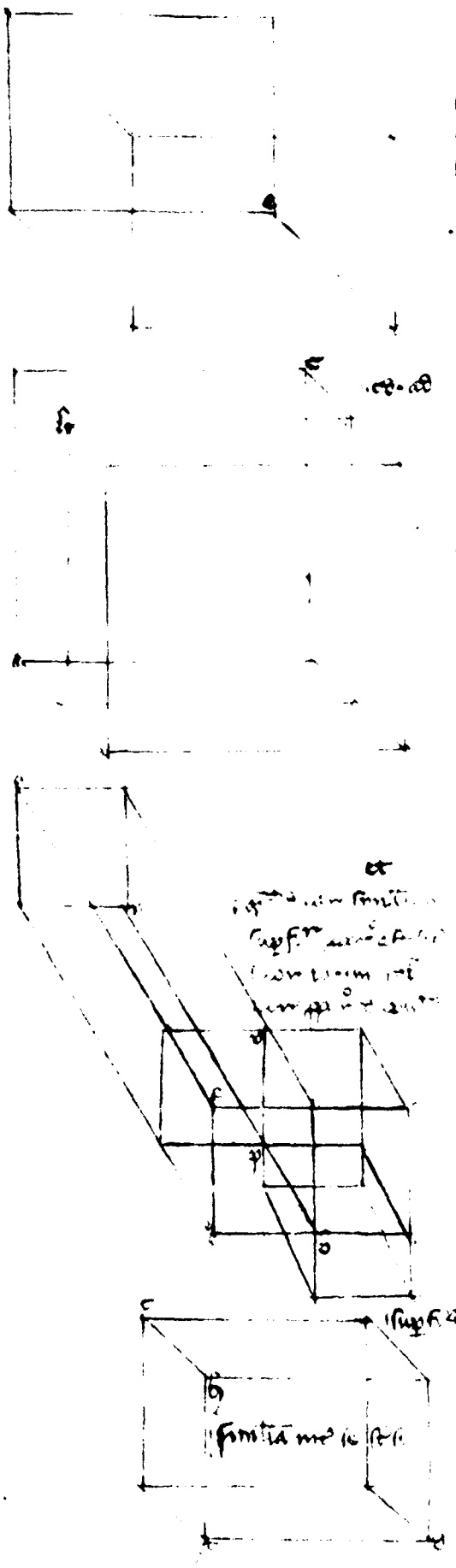


soliduꝫ

olida equedistantiu sup basibz equis costituta sint equealta linee oz an
sup bases ortogo stent equalia
sup bases ortho nostrent
solida equedistantiu supficies equalia sub ba
sb; st portionalia
duo solida equedistantiu supficies equalia sub ba
duo solida equedistantiu supficies similes ba

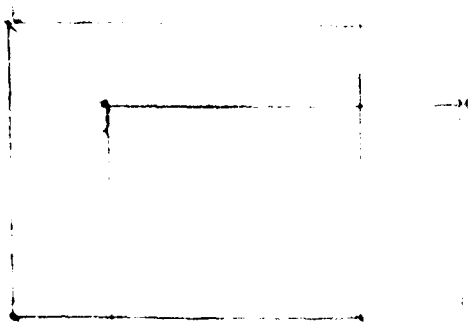


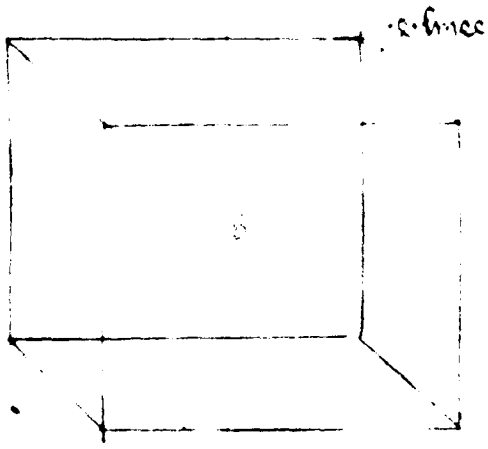
1 Duo ſolida equediſtantiū cōz bſis fiunt equalia cōz bases erunt mutue
altitudi ⁊ Si u⁹ bases ſue altitudi ſint mutue ſiunt duo cōrpora eq
ſuppſitor⁹ pluntur ec equalia Ec̄ p̄mſſa ꝓmit de ſolid pllis quor⁹ hic altitudi ſu
lis orthogonalis ꝙcunt hic 21. ꝓmit m⁹ de ombz demonſr⁹ ad q̄ hiat ep p̄ſ
tiū 22. ep. 22. fabricab⁹ n. duob⁹ ſolid equedistan⁹ laḋm āſtrū. ſi hic altitudi ſue bſ
ep⁹ m ſſtint aſtat om⁹ ꝙ diuiſa ⁊ p̄mſſa ſit a. ⁊. angulū pimetis ſuprēm⁹ ſup
ſolido ātne ſic diuidant ad bases ⁊ pimet angularib⁹ m ſſmar⁹ ſuppſit ſtine erugan⁹ m
ſolida pllā ꝙſtituet⁹ eḋalia ſolid bonb⁹ erunt ⁊ ep. 29. 2. 30. hic duo ſḋa duob⁹ ſolid p
Cum ꝙhoc corp⁹ ſint inḋ bases ⁊ hiḋ altudines ſic ad ep p̄mſſa de p̄dcis bm p⁹ hic 31.
em ⁊ erūt ut de bonb⁹

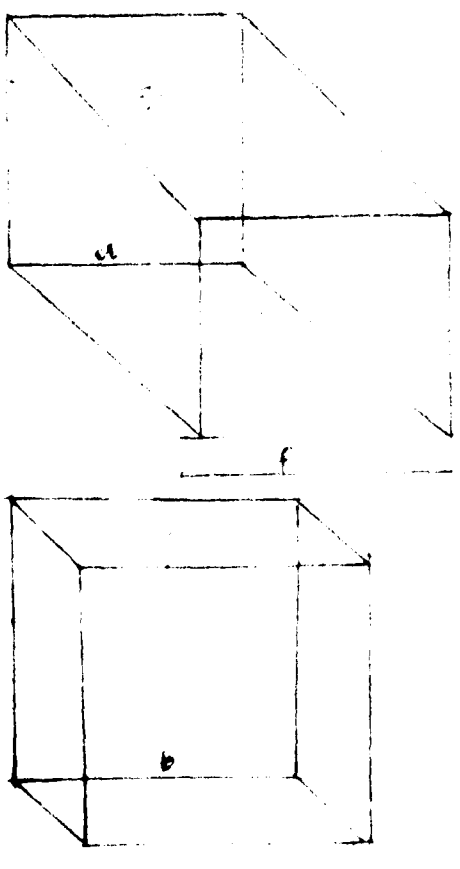
1 ſolida equedistan⁹ ſuppſi⁹ fiunt ſimilia ꝓpor⁹ ec̄ latiꝫ ad latꝰ cuiꝰ c
ſui lateris ad ſuū relatiū alterius ꝓpor⁹ t̄plicata ⁊ Sint duo ſolida. ab. ⁊. c
⁊ ſmilia ḋo q̄ ꝓpor⁹ ſuū⁹ cat⁹ ad alt⁹ eſt ſicut⁹ unus latꝰ cuiꝰ ad ſuū latꝰ alterius q̄ d̄ reſpō
plicata ut m. 19. 6. demonſtrat⁹ ⁊ nā ſi ſolid. ab. ⁊. cd. ſint cālia q̄rū ponant⁹ ſimilia
baſſib⁹ ſmiliū cor⁹ ⁊ ſmiliū ſuppſi⁹ ducta latꝰ unus cālis ſue relatorius latꝰ ad
q̄ ſuā ap⁹ ſū cālis ꝓpor⁹ ſolid⁹ a quotcunq; ſuppſi⁹ ſuper ea nō eſſent ſi cālis ꝓpor⁹ nes Conſtet
bm⁹ ec̄ ḋ ꝓmittit⁹ ſi a m cālis ſue. ab. manus cuiꝰ long⁹ ſit be. lat⁹ ef. alt⁹ ſit
ꝓma ſuppſitas. an. ſolidi ut. cd. ſit long⁹ dg. lat⁹ gh. alt⁹ hc. q̄ſtat rō q̄ ep baſſi ne
ſuppſi⁹ ⁊ ꝓnta ꝓpoſit⁹ q̄ ꝓpor⁹ af. ad ch. ⁊ fe. ad hg. ⁊ eb. ad dg. ſit ḋna ꝓpor⁹ ſu
linea af. q̄ ma⁹ ē mā. ch. lat⁹ fh. cālis hc. erit ⁊ omnes alterni ſolidi ab.
ad cālē cuiꝰ ⁊ me eas ꝓportet⁹ ſolid⁹ pallm bk. uſq; ad m. ſic rō. i. cālis. c
cālis hg. ⁊ ꝙſtat ſuppſitas equedistantiū latꝰ me que erit cālis ⁊ ſmilis hd. ſic p
em. 12. 6 ⁊ diſſimiles ſimiliū ſup eam ꝑ ducant⁹ ſolid pallm. pq. ſ alterni ꝓportiū
ſolid. ab. ē q̄ cālis ⁊ ſmile ſolid. cd. ⁊ rurſus q̄ me bas. rb. ⁊. bl. ꝙſtant ſuppſitas eq
latꝰ bc. ſup q̄ ducant⁹ ſolid pallm. pl. equealterni uel duoꝝ ſolidoꝝ. kb. ⁊. pq
alterorum duoꝝ angulis ḥrantiū me ca Cum ē duo ſolida. ab. ⁊. pq. ſint ſmilia ad
poſtea ſp ſmilia ſolid. cd. cor⁹ ut. bm ⁊ eis cor⁹ ſmilia ut q̄ ep diſſimile cor⁹ ſmiliū
6 m am⁹ eſt ep. 24. ⁊ aſſumpta q̄ me duo ſolida. ab. ⁊. pq. ſ. tam ꝓportes eadem ꝓ
. kb. ⁊. pl. ꝓportiones ſ⁹ oſtenſa ſit ꝓpoſitū ⁊ memoꝛ ſimile q̄ ſtabat ep p̄mi 6 ſuccle
poſterius ep⁹ cor⁹ ⁊ diligenter attende ſtacs q̄ ep. 24. hꝰ ꝓportes ſ⁹. ab. ad ſolid —
ē ſicut ſuppſi⁹. ar ad ſuppſi⁹. bv. ita q̄ ep⁹ ſ⁹ ſicut lic. af. ad lām. bk. ⁊ ꝓportes
ad ſolid. pl. ſicut ſup ſuppſi⁹. bv. ad ſuppſi⁹. pc. ita q̄ ſicut lic. fv. ad lām. vc. ⁊ ꝓpor
. pl. ad ſolid. pq. ſicut ſuppſi⁹. rl. ad ſuppſem. bm. ita q̄ ſicut lic. rb. ad lām. bm. ep⁹ p
q̄ ꝓpor⁹ hic. fv. ad lām. vc. ⁊ hic. rb. ad lām. bm. ec̄ ſicut lic. af. ad lām. bk. erūt ep⁹
cor⁹ ms ẽpliter ꝓportes m ꝓpoſitū q̄ ꝙſtat q̄ ꝓpor⁹ ſolid⁹. ab. ad ſolid. pq. ita q̄ ⁊ ad ſolid
ſicut hic. af. ad lām. bk. ẽpliciter ⁊ q̄ lat⁹. bk. poſtea eſt cālis hic. ch. p⁹ bm ē
Ferie d⁹ q̄ p⁹ p⁹ hanc. 36. ⁊ p⁹ eas ca q̄ ꝓpoſita demonſtrand⁹ ē ſolid⁹ pa
bm ⁊ de ſarracenicis duoꝝ baſi ꝑ terſt⁹ trigone d⁹ q̄ tertiꝫ pone hꝰ d ep. 28. ⁊ hiat. 36

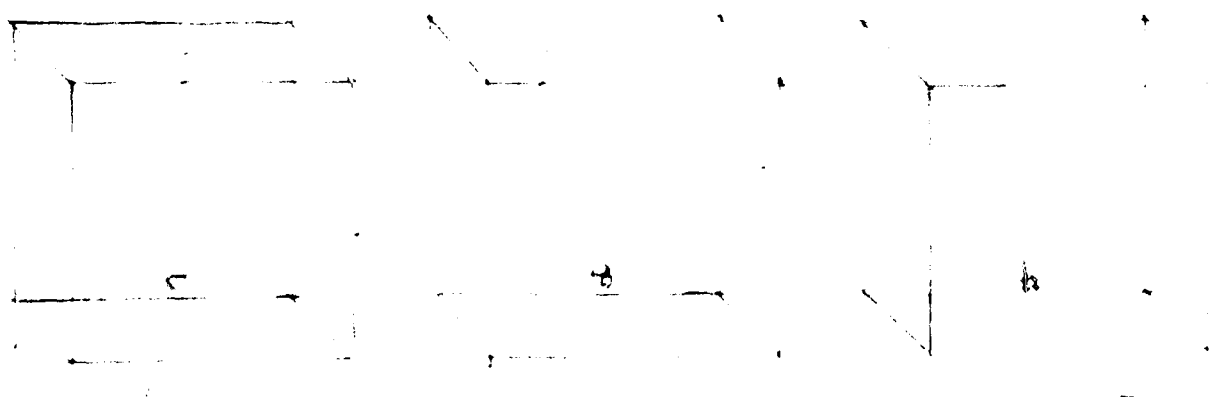
I fiunt duo anguli plani equales sup quos due ypotenuse m̄ acte statuantur
cum latib⁹ angulo⁹ subiacentiu singulos singulis eq̄os ornentes qz in
illis ypotenuse duo puncta figuentur adinuicē due pene⁹ ad sup̄fies angulo⁹
oppositoꝝ deiectantur equidistātes sup que pendentes recidunt ad eosdem angulos pla
de die rectē lineē ducant duo anguli qui adiuabz illis lineis atz duabz ypotenu
sis continentur equi ō mbicem cē patet

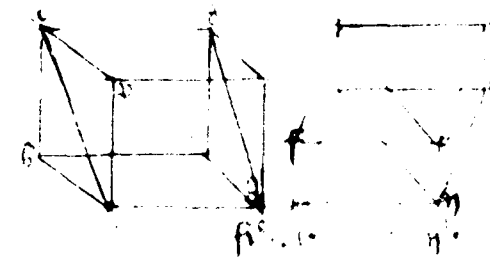
Fiant duo anguli plani. a. z. d. eq̄les arcna
[illegible] mgulus. gac. cūlie
[illegible] mgulus. gab. mgulo. hde. ac. m duabz ypothenuse. ig. z. dh. sigmet. s̄ mobl
[illegible] aquabz fl̄ bcpta m. hiuo demet. m̄ ad sup̄fies mgu⁹. i. z. d. que pen⁹ que sp
[illegible] pēhm² que cūe. am. z. dn. do i. mgulū. gam. cē equalē mgulo hbn. sl hie. ab.
[illegible] dl. bn sl c ep cūa. ig. sum c. ap. cāles. dl. ac ipimeto. p. demet. c pen⁹ ad sup̄fie
[illegible] que ste. pq. mam m z g. pimetū. q. est m hia. am. qd ep. ga hiuo z diffine cū cāles
[illegible] nare z cē m sup̄fie bna facile astare studiose meuena. delmc ipimeto. q. ducam² duc pe
[illegible] bna ad liam. ab. que ste. qr. z alla. gb. ad liam. ac. smilr iuo. ipimeto. n. ducam² alie duc
pen⁹ bna ad liam. bc. que ste. nec ad liam. af. que ste. nx. z pēhm². rs. z. tp. qd. apcas
p. z. l. demet. mc. y pothenuse. pq. pr. ps. z. in. le. ip. ab. cū. ipimeto. p. ducam² duc pe
[illegible]

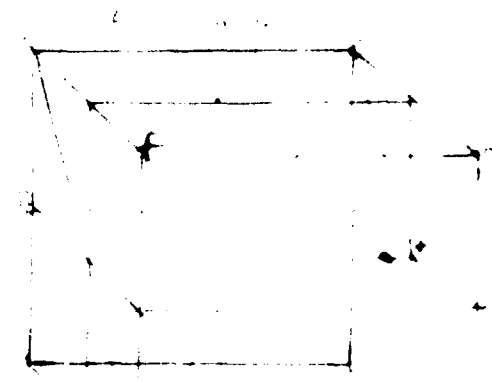


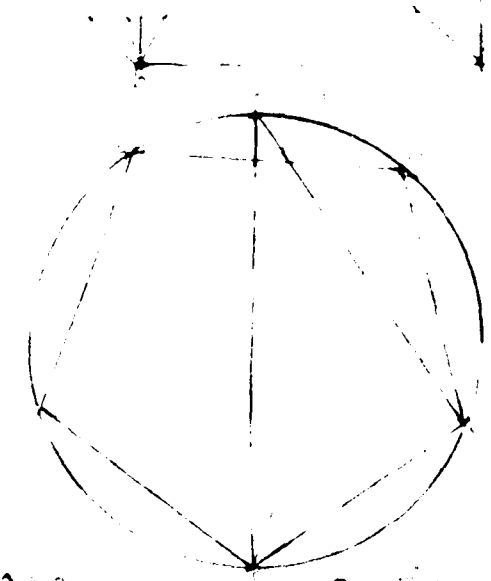


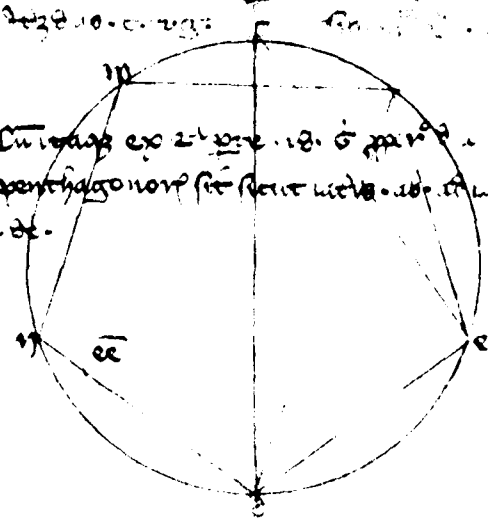

a
f
b

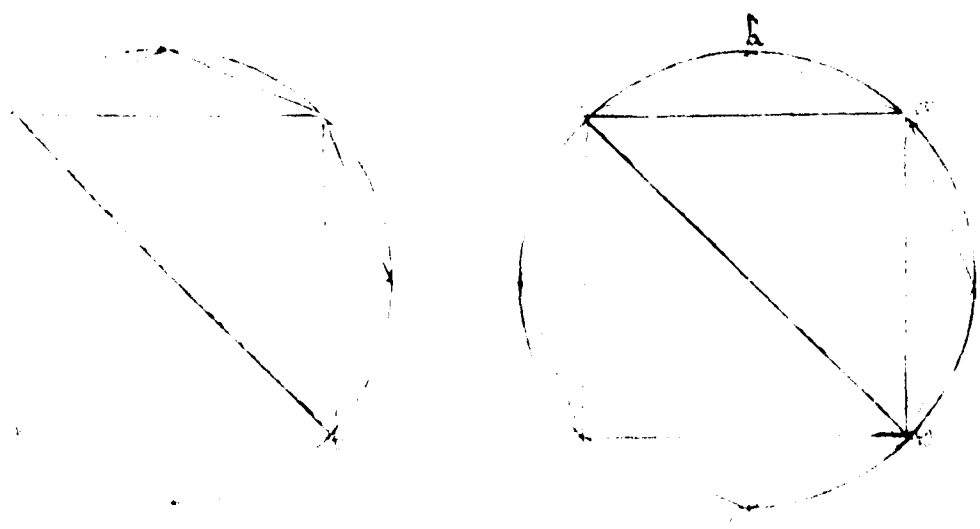

c
b
h

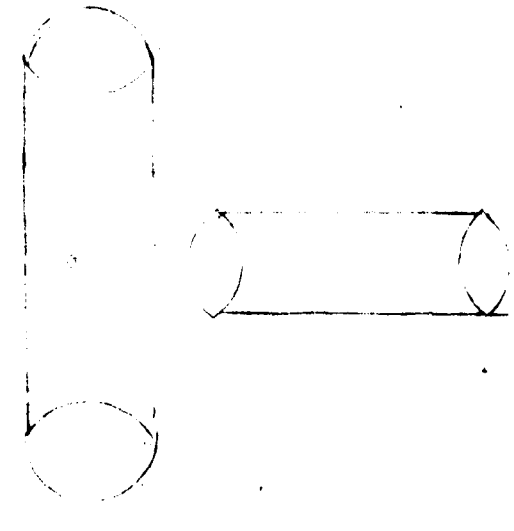


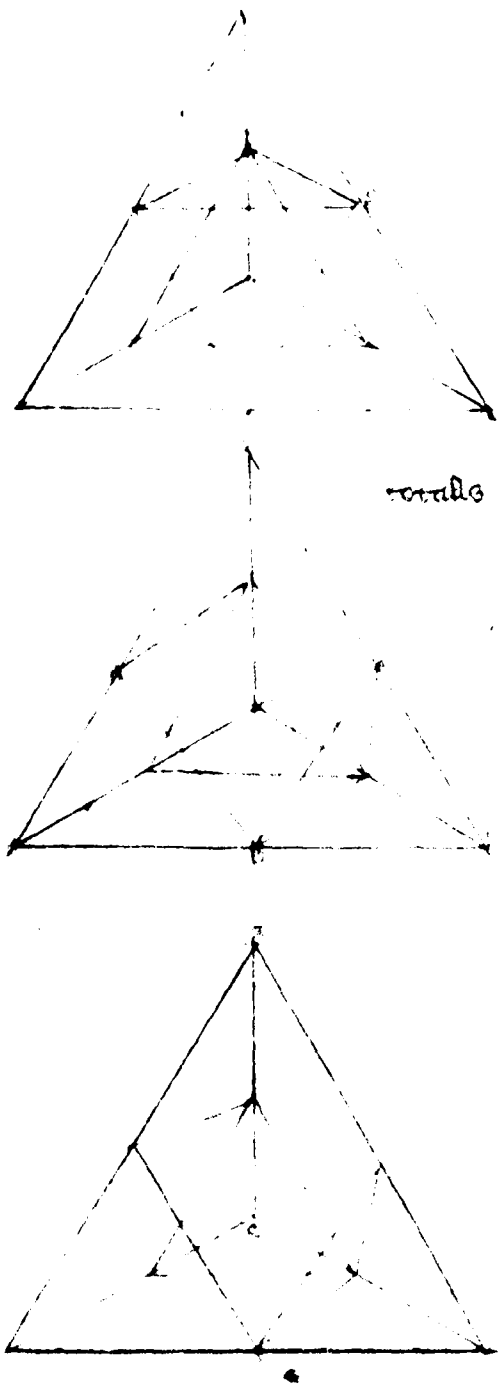












me pyramis cuius basis trangula dici potest

Dicem tota ql pyramidi similes et duo quelibet earundem equalia quilibet

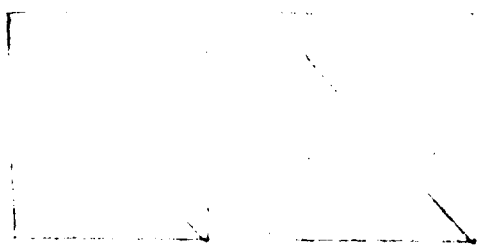
accepta duplo totius pyramidis huius est equalis

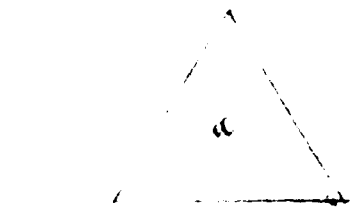
nies pyramides equeales quaꝝ bases triangule sint

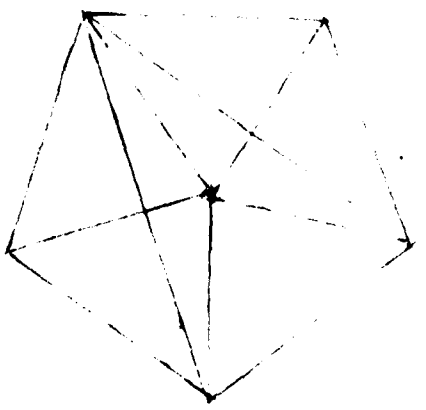
basibꝫ sarratilibꝫ apposites

nie corpus sarrale inter pyramides equales bases triangulas habentes est diuisibile

nies pyramides quaꝝ superficies triangule equeales sint basibꝫ apposites







erunt. ⁊ sint sũ bases ꝓportales pyramid a sup ad ẽgonas cũ lis a sũ vertis duplis sarralia
pyrab equalia erunt. obiº sarralia b mꝫ equalia ⁊ qz sarralia sunt basiũ sꝫ ꝓportalia
-z6. y. zz. ꝑpꝫ mẽ qz ep ꝓma hanc addendo mm sic hẽ sarralia ẽpla a ad opposita p
erunt qz bis ad suam relatum bases qz ꝑtes ẽles a duplas a basibz qꝫ sꝫ ẽ ep. ij. q ꝓ
plum ad ꝓblum ⁊ ꝓmo plum ad ꝓmo lum erunt quoz ꝓpe pyrades sub basibz ꝓportales

i Si fuerint due quelz pyramides equalte fuerint altus basis trigona vel q
gona a pluriũ pyramides sub basibz ꝓportionales ẽ cõmenet ep

mediãtibus duab pyramid equalibz sup duas bas b-a-⁊-b. sit qz basis-a. trigonula-b. ut pen
⁊ dicant hec pyramid-a-⁊-b. duo tetraedra ꝓportionalia pyramid-a-⁊-b. ẽ sup basiũ-a-b. disp
quid pentagonus-b. m. z. tamen. etc. erit qz tm pyramis-b. disposita m z. pyramidibz
altis quaꝝ bases sꝫ trigonula. etc. que ꝯ dicant nobis suaꝝ basiũ qz ꝯ ep ꝓmiss ꝓpor
-c. ad pyrab-a. est sicut ẽgonum-c. ad ẽgonu-a. sequit ep. zz. q bis assumpta qz sit ꝓpor ad
omnibz pyrab ⁊ nom z pyramis-b. ad pyramid-a. sicut adiecta ep omnibz ẽgonis. etc. ⁊ ꝑ
pentagonꝫ. ẽ ad ẽgonu-a. qd erat ꝯ qd volumꝫ

nes latere pyramides equalte sunt basibz ꝓportales ẽ ꝑuerſ. Si altꝰ eaꝝ fue

basium ẽgonum ep ꝓmissa q sit qd bis ꝯ altus basis lateꝝ fuerit pollygoma vel ꝑpter basiũ
lucta m tamen ⁊ tota pyrab m pyrab tamen ẽ ep ꝓmiss ꝓpor ꝓmꝫ ẽ z earꝫ triangulaꝝ pyra
m quas alta ꝓportales duci ad relatꝫ sicut sue basis ad basium altus vel ꝓ. zz. ij quotiens q
tam q sit ter ꝓmꝫ ẽ qd bis mꝫ

i Due pyramides triangulariũ basiũ fuerint equales earꝫ bases earꝫ alt

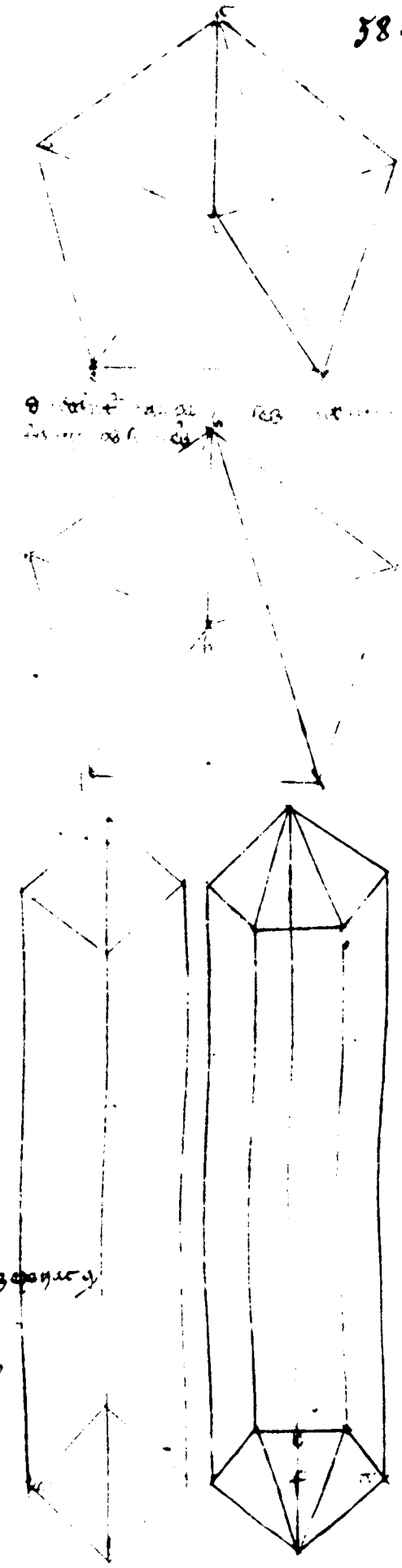
mutue erunt si ut bases ⁊ altitudines fuerint mutue earꝫ pyramid ẽ m
equales potest esse. qd zc. zij. y. possumus deducꝫ quãdo ⁊ nos ꝓ. 46. cuius demonstra
de triangulis hic. d. duo dem ꝓme de pyrab triangulas bases triangulas intelligim. n. que py
equales sup ẽgonos. a-⁊-b. a duc. a-⁊-b. qꝫ vult q ꝓpor basis-a. ad basim. b. est sic
ꝓpor altitudo pyrad-b. ad altitudinẽ pyrad-a. ⁊ sꝫ dic duo pyrades. a-⁊-b. ẽ cõles ad bas
quib duobz ẽgonis-a-⁊-b. alii duo que sint. c-⁊-d. ut fiant ambe superficies. ac. ⁊ bd. equ
distantiu latꝝ ⁊ ep vtrisq pyramib sup bases. ac-⁊-bd. manifꝫ ẽ ep. 6. huiꝫ duom q
ramid-a. est ꝙd pars ꝙd. ac. ⁊ pyrad. b. ꝙd solid. bd. vtꝝ ep. zij. y. itaque ꝓpter ꝑmꝫ

Nota si due quelz pyramides latere fuerint equales e ꝑ ep ꝓpe zꝫ a ep zd

ace bases earꝫ altis mutue erunt. Si ut bases earꝫ altitudines fuerint mu
tue fuerit earꝫ pyramides equales ẽ ep. Si bases triangule fuerint triangule demonstra
est basis ẽ ad triangulũ. si aliꝫ ẽ. a. basis alicuius pyrad sit. b. ⁊ sumat ẽgonus. c. cõsi
ẽgonu. d. fiatꝫ sup. c. pyramis equalis pyri que sup. b. ⁊ sint. abc. equidistãtia nota pyra
basiũ qz ꝯ ep ꝓpositũ due pyrades. a-⁊-b. sꝫ equales erunt ep ꝓdicta due pyrades. a-⁊-c. cõles
bases earꝫ sꝫ mutue ad latus ꝓportionales ꝓpter. x. huiꝫ. Cumꝫ bases. bc. sꝫ equales altitu
quoz pyrad. bc. equales erunt ep pd ꝓpe ⁊ zd ꝓpe. a. ij. basis mutue altis pyramid.
-⁊-b. ⁊ zd ꝓpe ꝙd ꝓpter ꝓpositũ ꝓpter. x. huiꝫ. Cumꝫ basis-b. ad basim. c. ut altus pyrad. b. ad altitu
-a. erit ep zd ꝓpe ⁊ ij. a. ij. basis-b. ad basim. c. sicut altus pyramid. c. ad altitudinẽ pyramidis
vel ex zd ꝓpe. c. due pyrades. a-⁊-c. sꝫ cõles qr ꝙ omnium trium duo quoz pyrades. a-⁊-
equales. sꝫ ut nemꝫ cassum ꝓponatur pyramid sint ẽgona sꝫ vel pollygona ut gra altitudo pyra
alta ẽgona que adiuget diam. a-⁊-b. sumat similis triangulus. c. cauda ẽgono. b. s
que fiat pyramis equalis pyrad. b. erunt due pyrades. b-⁊-c. cõles ꝙ due que sꝫ. ac
ꝙ ꝓpter nem equales quare basis-a. ad basim. c. sicut altus pyrades. c. ad altitudinẽ pyrad. a. hoc. n. nisi de
cratum est. Si ep. ij. ij. basis-a. ad basim. b. sicut altus pyrades. b. ad altitudinẽ pyrad. a. ⁊ Componãdo
si. n. basis-a. ad basim. b. sicut altus pyrades. b. ad altitudinẽ pyrad. a. et quoz ep. a. est basis-a. ad
-c. ut altus pyrades. c. ad altitudinẽ pyrad. a. ꝙz ut ꝑ ꝓpositũ erunt due pyrades. a-⁊-c. cõ
qr ⁊ ꝙd sꝫ ⁊ due que sꝫ. a-⁊-b. erunt cõles

Omnẽ duarũ pyramidum similiũ quarũ bases triangule est ꝓportionalis ad alti

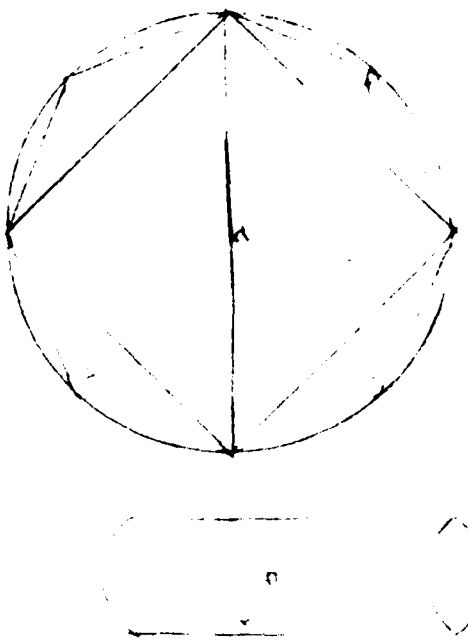
tangẽtes latus ad latus cuius relatum ꝓportionata ꝓpter duabz pyramidibz basi
gulis simile fiat. ep vtrisq ꝑfice duo solida quoꝝ quodlibet est ex demonstratis ꝓmissa erunt. hec duo so
pollia similia ⁊ c. similia ep ꝙ pyrades ponuntur similes ad modũ ita duo solida triangula que sꝫ ped
⁊ solida pollia superficies angulos ⁊ nud ⁊ qdãtes cõlibz termini ⁊ lata quoz illos superficies angulos cor
sꝫ opposita qr ꝓ. zz. ꝓ zc. ꝓpositas solidoꝝ pollior omnes angulos solidos qdratos sꝫ equangule ⁊ ut
ꝓportiõ qz sibi ep hinc sequit similium qr ꝓ. zz. hꝰ eandem. 6. superficies hinc quoque sequit ꝓ
sꝫ ad unum similes ꝙ adiacentes cum similibz erunt ipsi solida similia qr ꝙ ꝓpositorum solidoꝝ ⁊ ꝓ



ad omnes pyramides prismatum

Si fierint due pyramides lacuate simules erit ppor altius ad altiu sicut fm
latus ad latus relatiu latus altius ppor triplicata

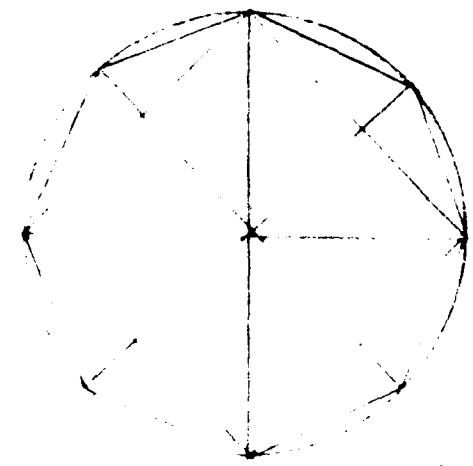
Sint due lacuate pyramides quaru com
munis ... smiles ... bases pentagonas ... ...

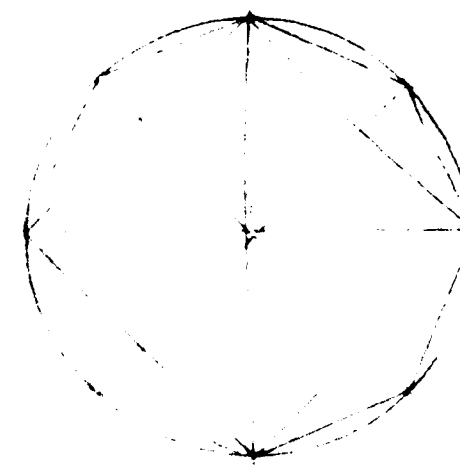


Quinta diuisio rotunde colupne ad rectum triangulum

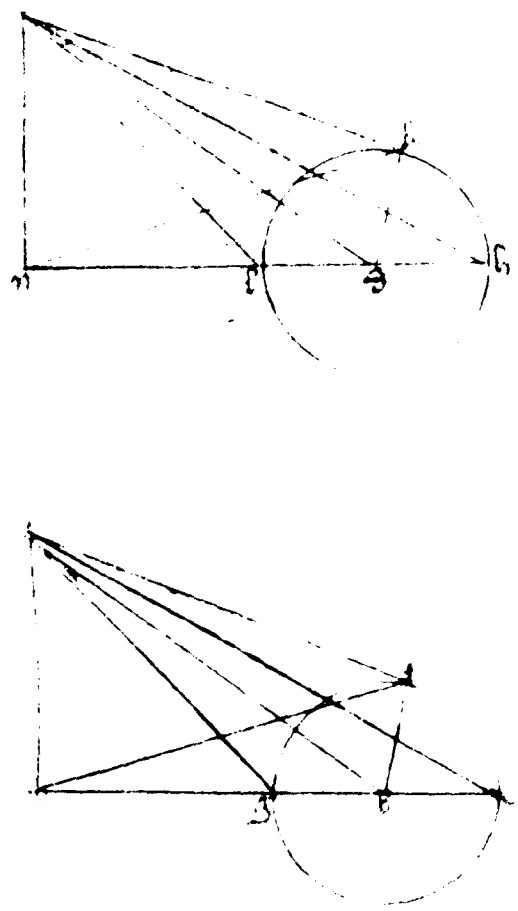
Sexta diuisio rotunde colupne ad rectum triangulum

Septima diuisio rotunde colupne ad rectum triangulum





fiat ac capiatur pro circulo

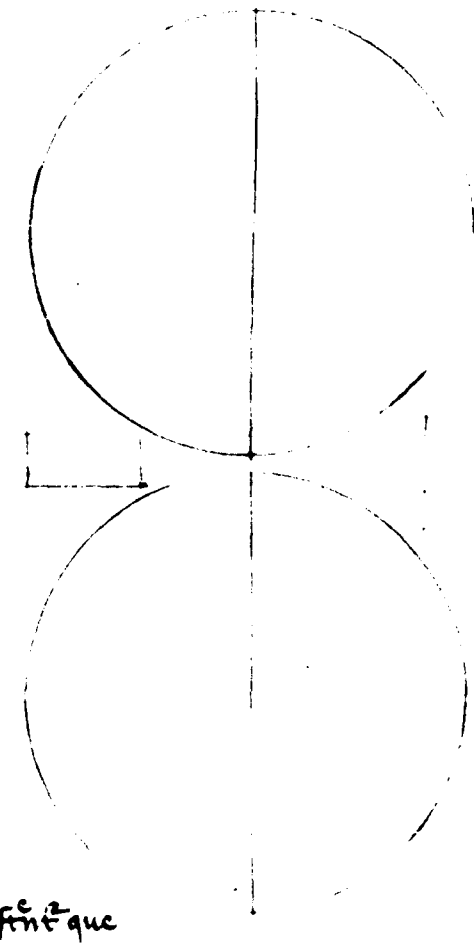


Finire due rotunde pyramides ad sphaeram similes. Circa quarum due plane superficies sup eandem sectam, quarum linee diametrorum superficierum alterius rotunde pyramidis sup basem eius orthogonaliter erectam et earum basium inter illas duas superficies contentam similes efficiunt angulos, quos eedem et due omnium sectiones basium earundem superficierum que sup has ponuntur orthogonaliter erecte, termient ad sphaeram equales. Sint due rotunde pyramides, quarum bases sint circuli circa diametros a.b. et c.d. quarum centra basium sint e. et f. et axes due linee a.b. et c.d. et diametri basium sint due linee g.h. et k.l. circa centra basium duo puncta m. et n. quorum m. sit centrum basis pyramidis a.b. et n. centrum basis pyramidis c.d. et due superficies sphaericae, quarum una contingat angulos pyramidis a.b. que sit superficies a.o.b. et contingat angulum o. pyramidis a.b. et alia superficies sphaerica contingat angulos pyramidis c.d. que sit superficies c.p.d. et contingat angulum p. pyramidis c.d. et due superficies sphaericae secent se ad angulos rectos, quarum una secet superficiem sphaericam a.o.b. secundum circulum a.o.b. et alia superficies sphaerica secet superficiem sphaericam c.p.d. secundum circulum c.p.d. et secet superficiem sphaericam a.o.b. secundum circulum o.r.s. et secet superficiem sphaericam c.p.d. secundum circulum p.t.u

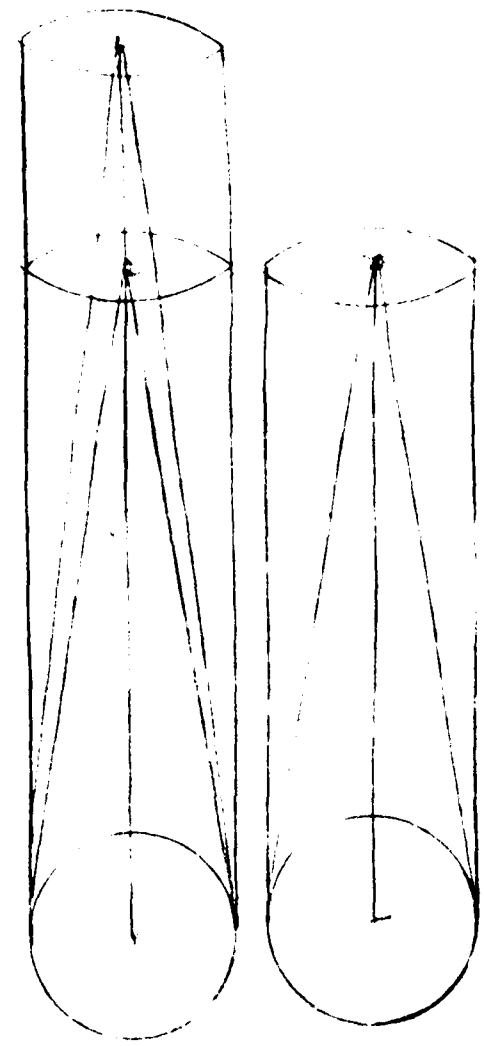
mnes due rotunde pyramides sue coliprne equalitas sue basibus necesse est
esse proportionales. Sup duos ẽculos a c. b. stratum⁹ ut ꝓius due rotunde pyramides
equalit alte dm̃ smilr a c b. ⁊ coliprne rotunde equalte ẽt lins ꝙ stre do ita q. ꝓor⁹
ẽcul⁹ pyramd a c b. duap q; coliprnar a c b. est sicut duor ẽculor a c b. qđ de coliprne
me m.m ꝙ s̃ho ꝓius de pyramidib; demoustr⁹ oĩb n. rotunda pyramis ẽpla ⁊ ad suam pyde
de pyramid⁹ ꝙ stabit m̃ta rotunda ꝙ mo est n. ep; sta ꝓor⁹ rotunde pyrum. d. cui
ꝓ⁹ corpus sicut ẽculi a. ad ẽculum b. ita corpus stẽ c. đo ita q; corpus c. no p⁹ c. mg
n: m.mus rotunda pyra b. sic n. p⁹ mg q̃ⁿ corp⁹ d. ⁊ ẽculo b. m̃ sit quadratu ⁊ de ht
rotunda pyra b. pyramis laterea cui⁹ sic basis quadratu ẽculo b. m̃ sperum ⁊ ep portiomb
dctm̃ pyrades sup ẽgonos portionu ẽculi ẽssentes sint quor ẽho totiens quouꝫ
sit ea pyramis b. resolut mg corp̃ d. erit ⁊ latera pyramis deducta ꝙ apponit pralis pyds
deducte m.nor corpe c. Inscribatur q̃ⁿ ẽculo a. poligon⁹ stis illi polligonꝰ qđ ⁊ basis laterea
pyre b. ⁊ ꝓstruatur sup rem primꝰ latera quotlibꝫ alterne pyramid a. ad angulos polligoꝝ
m̃sorꝝ erunt ⁊ due laterea pyrades a c ⁊ b. equales. ẽho n. postea ⁊ de rotunda ꝙ ꝓpor⁹ latera
pyre a. ad lateram pyramid b. ⁊ sicut eius basis ad basim illius basis sicut polligonꝰ a. ad
polligonum b. ẽho n. de monstratum m. Gḥ ẽst a polligon⁹ a. ad polligon⁹ b. sicut ẽcul⁹ a. ad ẽcm
b. q̃ⁿ ma ⁊ ex p̃ ⁊ 2ª ẽho due late pyramid⁹ a. ad lateram pyramid⁹ b. sicut ro de pyra b. a.
ad ro de c. sic p̃mum latus pyra d. ad rotunda pyra a. sicut latus pyra d. b. ad corpus c.
sic latera pyramis b. maior corpe c. sic latera pyre a. ẽ ma rotunda pyra de. a. sic ẽ ma
rotunda est n. ꝓs eius no ꝙ corpus c. ma rotunda pyra de. b. Si u⁹ ponat ad huc aliꝰ q̃ste
manifestatio⁹ ꝙ ad meam ostensionem oportet n. ꝙ quelibet ꝓportionalis ꝓportio corpis c. ad rotunda pyre
sic ẽculi b. ad ẽculum a. erit n. ꝙ quelibet ꝓportionalis ꝓportio corpis c. ad rotunda pyramis a. sic
erit ẽculi b. ad ẽculum a. sic quor ẽtra rotunde pyrades b. ad id corpus qđ stat b. Cum ꝙ
corpus c. sit maius rotunda pyramide b. ꝙ ꝓpositum erit ẽp. ut ẽ rotunda pyramis a. ma. cor
poris ad ꝓportionalem ẽculi b. ad ẽculum a. erit sicut rotunda pyramis b. ad corpus qđ m̃ rotunde pyre a.
hec demoustratio ⁊ p̃ ẽ ꝓpositio stis n. sequit⁹ q; ps est maior toto. nō ⁊ ꝙ corpus c. ma rotunda
pyramide b. q̃m ẽqle ẽrat ẽp ꝓportionalis a. sit. a clude ꝓpositum. ut ꝓ facilꝰ m̃ q; ꝓcedentibꝫ demoustretur que
stio ẽst ad ꝓpositum quod erat ꝓbandum.

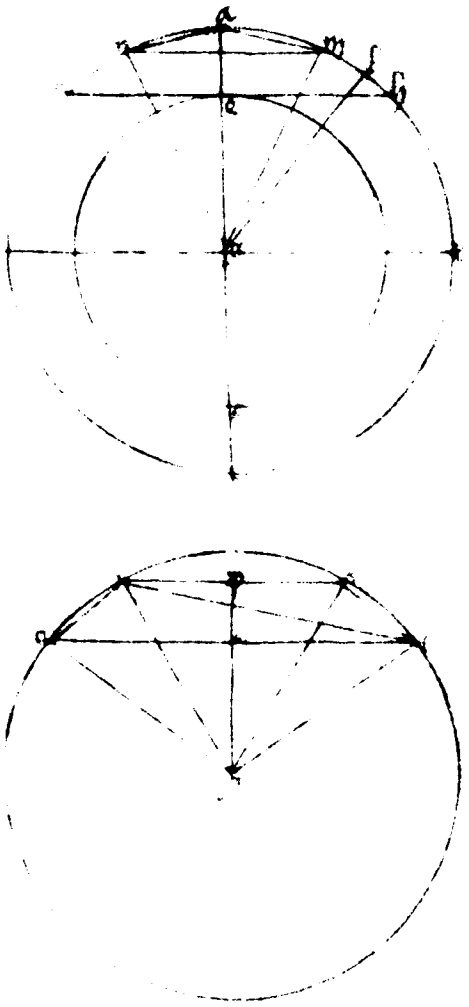
I Due rotunde pyramides sue coliprne sint ẽqles sue basis ⁊ altitudines erunt reciꝓce
Si u⁹ sue bases ⁊ altitudines sint reciꝓce ꝓportionales ita ut sit ꝓportionalis ꝓportio basis
ad basim sicut altitudinis ad altitudinem ꝙ ẽho ꝓponit. Dico q. coliprne sue laterea sunt
sue rotunde q. ꝓportionales ꝓportionem ⁊ p. Dico q. si rotunde pyrades sue coliprne
sue laterea sunt sue rotunde q. ꝓportionales ꝓportionem ⁊ p. Dico q. si rotunde pyrades
fuerint ẽqles erunt ⁊ coliprne ẽqles. Dico q. si rotunde pyrades ⁊ coliprnas ẽqles
fuerint reciꝓce ꝓportionales ꝓportionem ⁊ p. Dico q. si rotunde pyrades ⁊ coliprnas ẽqles
ẽho ꝓponit. Sit n. ꝙ de solis pallis non solu dm̃ ⁊ ꝙ de coliprnis rotunde ẽ smile de
coliprnis sue laterea sunt sue rotunde q. qui argumentat ꝓmo ⁊ p. Sit n. ꝙ sumus de
monstrare. ẽho n. no aliter ẽ ꝙ ẽp dicere in ga ꝓportionis potest in ꝓpositione q. ubi
ꝓportionalitas ⁊ ꝓportio accipit a ꝓportionalibus q; quelibet sup fies secte coliprna ẽqualis basi ꝓprie sue ⁊ cum
coliprnis sup fi basi sue oppte ita q; quelibet sup fies sup fi⁹ ẽm sit ẽqualis cuilibet ex quor sit ẽqualis
ad no ẽ ut ẽp ẽho que dicta sit m.m. y. libri huius. Ar mam⁹ ꝙ omnis coliprne rotunde que
sit ẽ f cuius⁹ sue altitudo sit ꝓportionalis ꝓportionem ꝙ quor de pyrad⁹ rotunde ⁊ ro de laterea qđ de pyrad⁹
assumit⁹ ꝙ quo de coliprne ꝙ est n. omnis coliprna ẽpla ad suam pyramid⁹ rotunde quib⁹
ex. q. quib⁹ laterea ut ẽp ẽho que demoustrata sit ꝙ.

I Due pyramides rotunde sue coliprne sint ẽqles sue basis et altitudines e
runt reciꝓce. Si u⁹ sue bases ⁊ altitudines sint reciꝓce ꝓportionales ita ut sit ꝓportionalis ꝓportio
basis ad basim sicut altitudinis ad altitudinem ꝙ ẽho ꝓponit. Sint n. due rotunde pyramides. ab. ⁊. cd. ẽqles
habentes rotunde coliprne. ab. ⁊. cd. equalos sint ꝙ ꝙ bases ẽa pyramid⁹ ꝙ coliprnar duo ẽli
dri. ⁊. e. omnes quor alterne ẽa pyramid⁹ ꝙ coliprnar ẽ rotunde ꝙ bas. ab. ⁊. cd. đo ꝙ ꝓpor⁹ ẽli
dis ad ẽculum. e. est sicut altitudo. ab. ad altitudinem. cd. ⁊ ẽq đo ꝙ ꝓpor⁹ ẽculi. e. ad ẽculum
f. ita est sicut altitudo. cd. ad altitudinem. ab. ⁊ ẽq đo ita ꝙ ro coliprnis ꝓbatum fuit de pyramid⁹
ẽdem modo ꝓbabit ꝙ ro coliprna rotunda ẽpla ad suam pyramid⁹ ita ẽt basis due altitudines. ab. ⁊. cd.
fuerint equalibus ex hypothesi ꝓpositis. Si ad ẽ ẽqles sit. ab. maior quam⁹ ꝙ. ae. ẽqlis. cd. ⁊
sit coliprna. ab. sup fi⁹ ẽ equidistans basi cui⁹. a. ẽ ꝙ ex ꝓbatis antea coliprna. ab. ad coliprnam
ab. est sicut ro. ab. ad altitudinem. ae. ẽ ꝙ ex ꝓpositis ꝓpter de ẽ coliprna. cd. ad coliprna. ae. ẽ
sicut ro. ab. ad altitudinem. ae. ẽ ꝙ ex ꝓmissis ꝓpter ae. ẽ sicut ro. ab. ad altitudinem. cd. ex hypothesi ẽ ꝙ coliprna
ad coliprnam. ae. sicut ẽculus. e. ad ẽculum. a. erit ꝓportionalis ꝓportio. ab. ad altitudinem. cd.
sicut ro. f. e. ad basim. a. assumat ꝙ⁹ pars ꝓma. 2ª ro ꝙ⁹ ꝓmo assumpta. cui⁹ dispositionis mate stem
sit ẽ. f. ro ad basim. a. sicut alta⁹. ab. ad altitudinem. cd. đo ꝙ due coliprne. ab. ⁊. cd. sp ẽqles ẽ



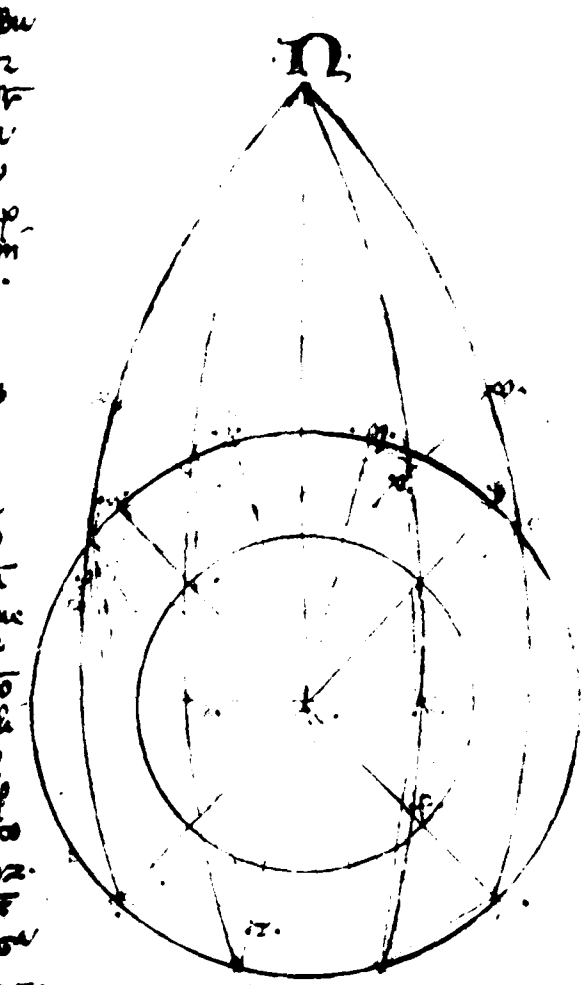
I Superficies spiedum rotun
dum coliprnam equidis
tanter basi eius secunt erunt. ⁊
plana cõ. que ad illam superfi
ciem terminant ꝓportionalia
ꝓportionalium





numerus

constructa ad corpus basium
multar nr minore speciem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r.
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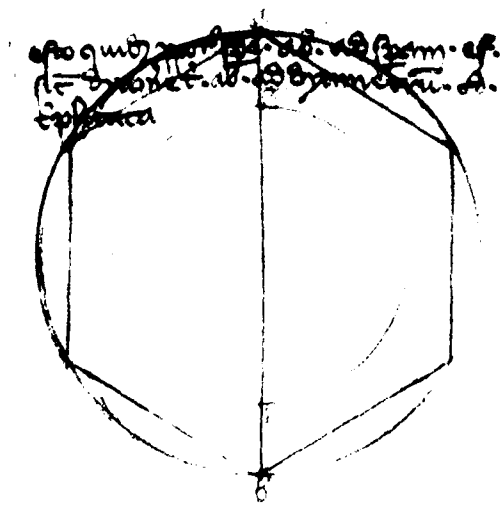

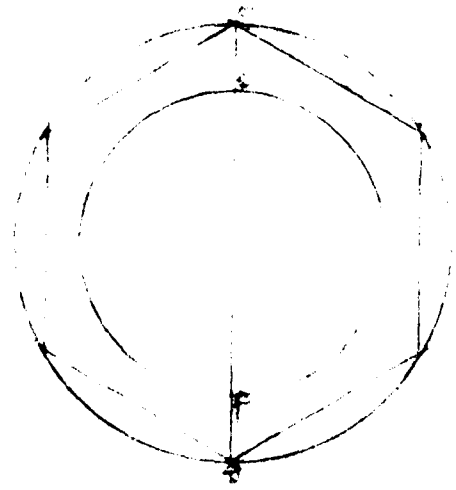

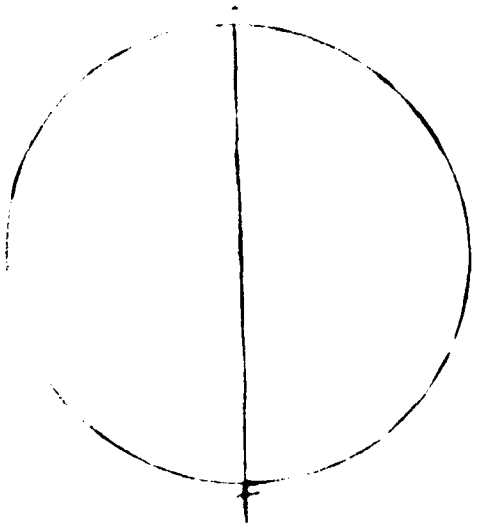

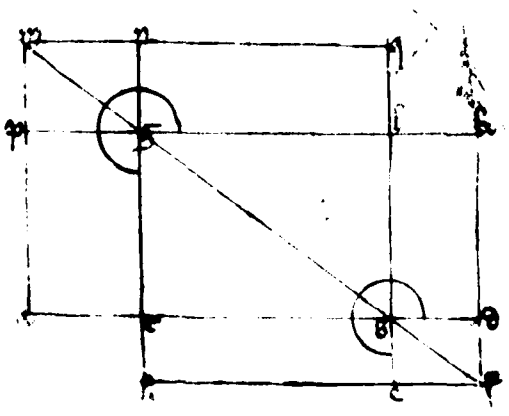
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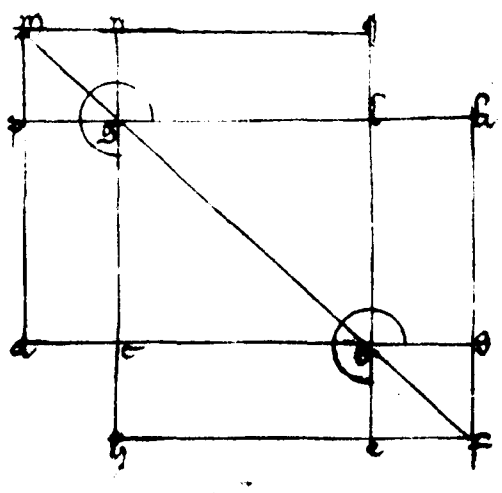
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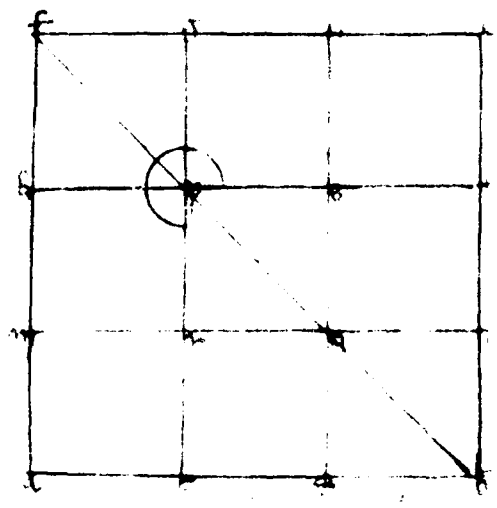
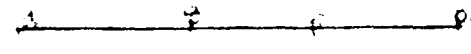
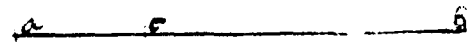
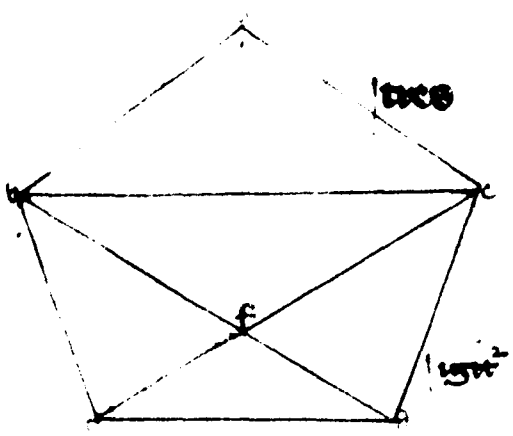
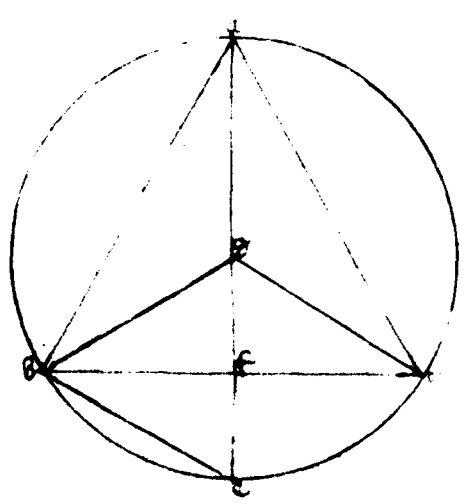






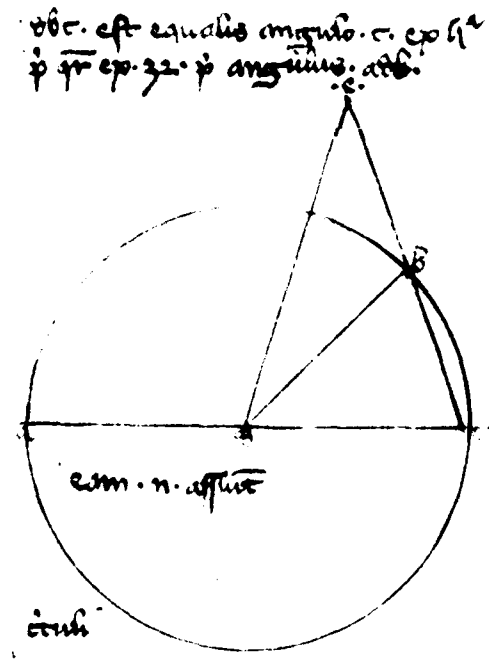


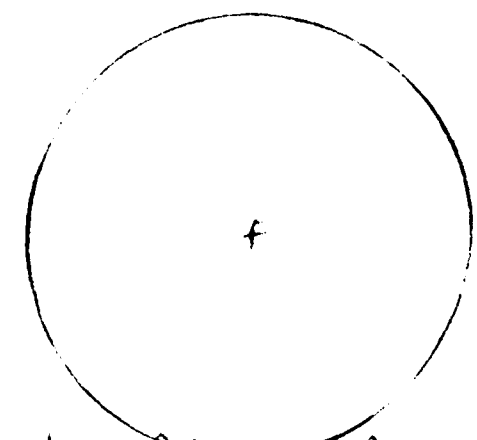


quia ralis non longe que sit. de. que quidem ut. f. si ꝓbetur manifeste mon ꝫ ego ab. exhibeo questi
onis alterius. cuius questionis mee certa demonstratio nec roborabitur ꝙ appon. ab. ad. de. ipse ut. d
. bf. ꝫ ipsum. cb. ab. se. exhib. docet ꝙ. de. mō sequit ego ꝓma ꝑte. io. ꝙ. ut. de. ꝫ. bf. ꝫ. d.
se. ms ꝑ ꝙ ut. appon. he. be. ꝫ residuū est ut ego ꝓbet sequit ꝙ. gb. io. ut. ut. appon. he. ab.
se ꝫ residuū ꝫ hic causa ꝑ certitudē demonstrat. ꝫ ipsum ꝙ omnis ralis non longe ꝫ mō
ꝫ appon. he. ut. ms ꝫ hic ipsum ut. appon. ꝫ residuum. Et nō ꝙ ꝙ ego demonstrare
demonstrat ꝙ maior quare he diuisa ꝫ quadratum me ꝫ hic ipsum ꝫ residuū ꝫ mō he ipsum
mō quod ego ꝓpositū fuit mō he ponatur ralis non longe fuit mō ꝑ ꝫ. ut. ꝙ ego qua demonstra
ut ut per he ꝙ ꝑ quas ꝑ residuū ꝫ ꝙ ralis nō potest ego ꝓpositū, ꝫ ab. ꝑ ralis non longe ꝫ
ꝙ ego ꝙ ꝓbetur ꝙ medium ꝫ residuum ꝫ maior quod ꝓpositū ralis ꝫ ꝙ fuit maior ꝑ ralis
non longe fuit mō. em. ab. quod ꝙ de maior quod he ꝫ hic mō diuise ꝙ ꝑ ꝑ residuū ꝫ
fuit ergo ꝓpositū rōnis libri ꝓcedit (ꝫ ratiōem mō. em. ꝫ. ab. quod hic de ut. per ut mō. ut. ꝫ
rōnis libri. ut. ratiōem in hoc ut. ꝫ. ab. quod hic de ut. per ut mō. ut. ꝫ

8 ¶ Quis penthagonus equos angulos hus fiat equilatus equiangulus circulo

Ut penthagonum abcde equilaterum sit ꝙ. quis angul fiat ꝙ ꝑ
ꝙ ut fiat ambitum equales ꝫ fiat duo mgna ꝓpria sint ꝙ angul. acd. ebd. ꝫ. qui ꝓnun
ambitum ꝫ hic ꝙ ab. pentagonum ꝙ equiangulū hus angulis subtendat arcus. he. bd. ꝫ. ce. ut
to ꝙ pentagonū ꝙ duabus ꝓ hus ꝙ quilaterum ꝫ duo diagonales sint. corde. duo ꝙ ꝙ
dus angulos ꝙ comunes ꝑ mō quadratum ꝙ ꝙ duo diagonales ꝫ ꝙ ꝙ ꝙ


dbc. est equalis angulo. c. ep hz
p ꝑ ep. 32. p angꝰ. abb.
c.
b
cum. n. assit
circuli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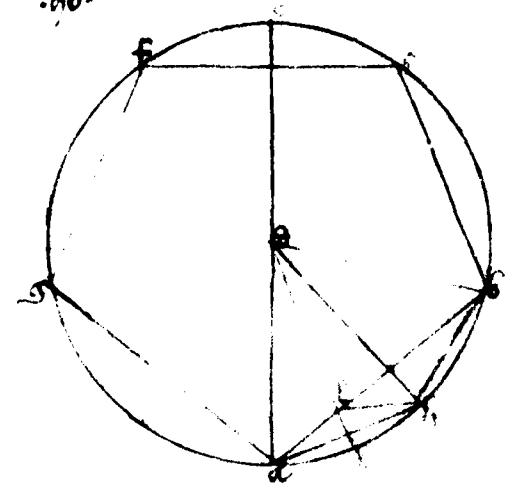
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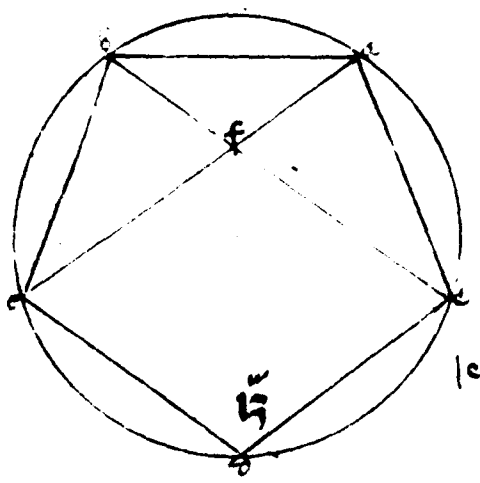

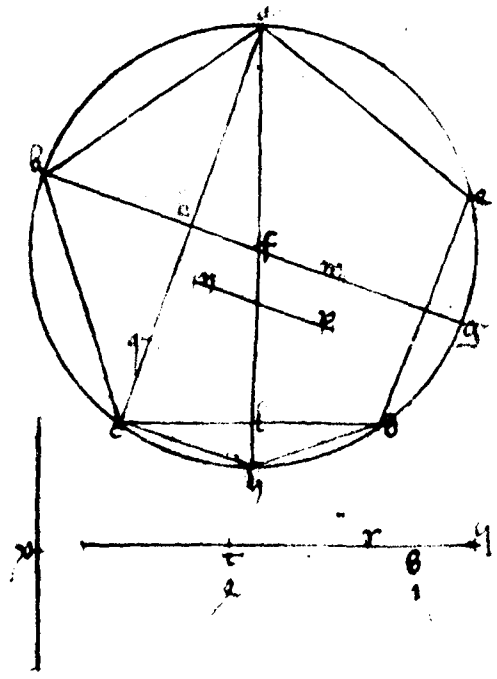
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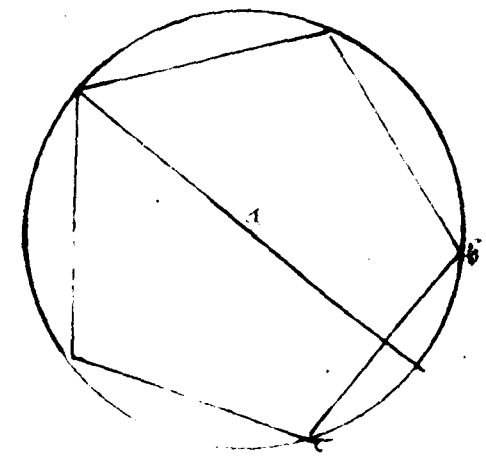

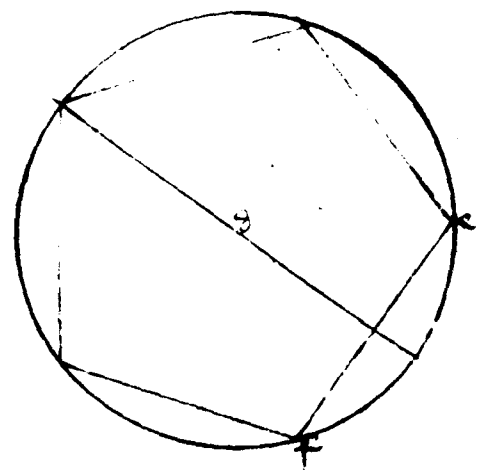

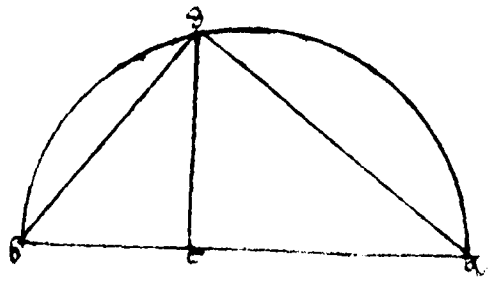

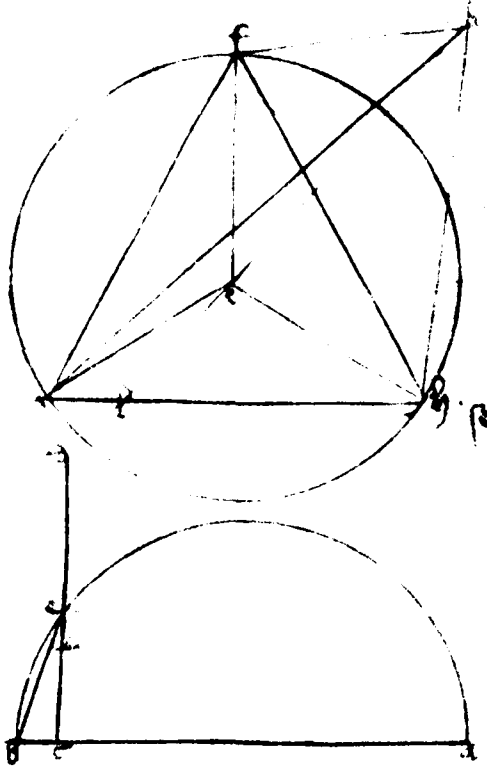
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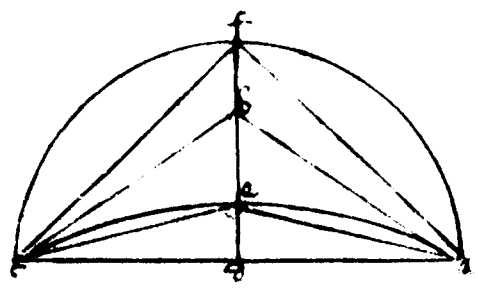
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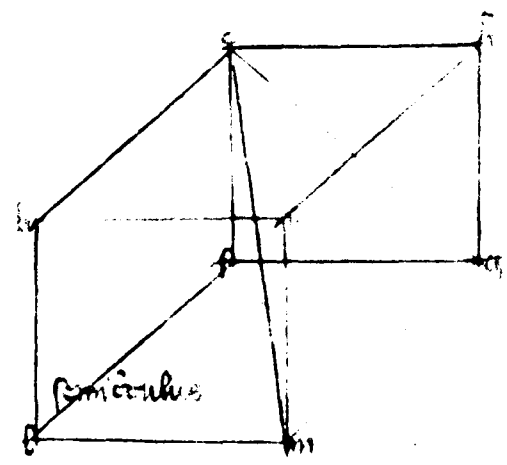
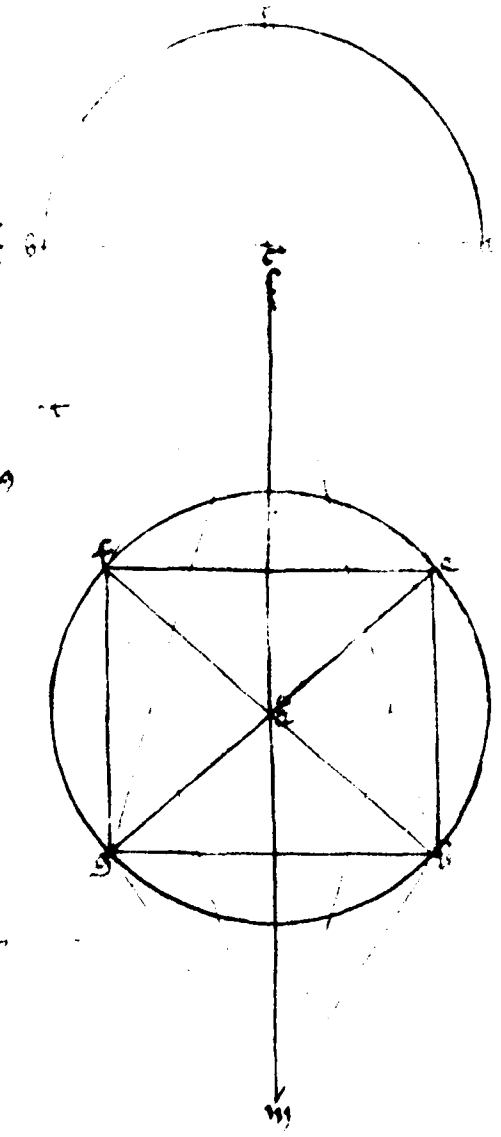
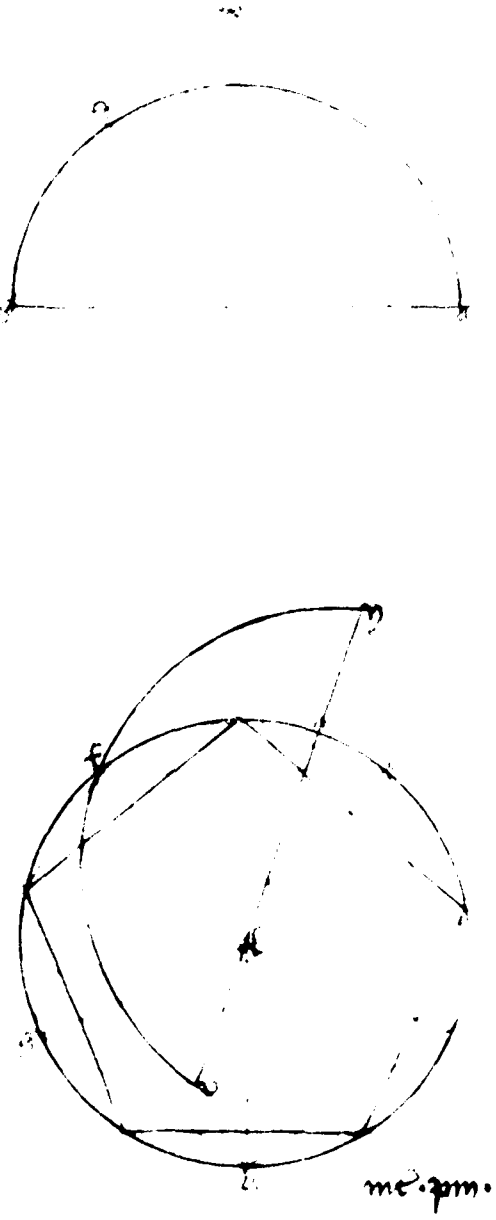
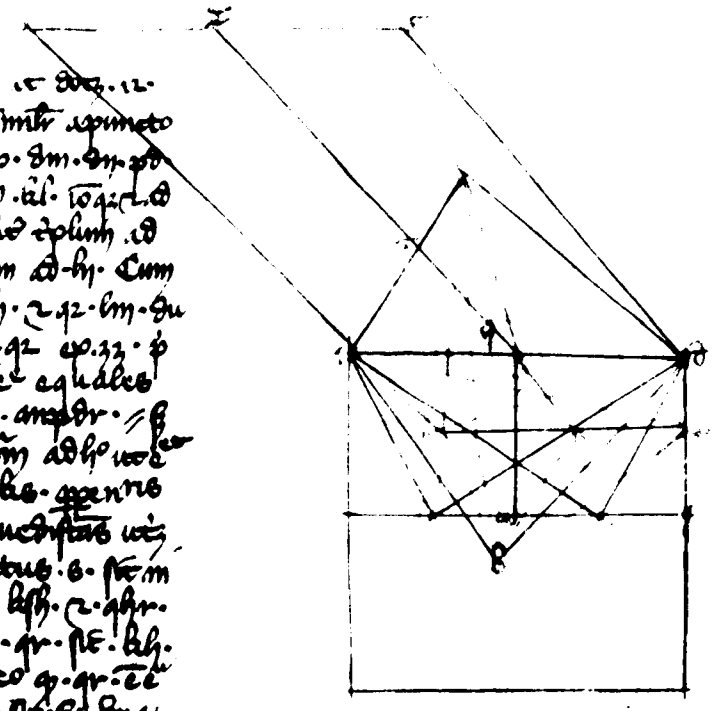




Corpus .8. basium triangulariu[m] et equalariu[m] assa pro[n]a constituibile cognosce
re pilam cuius spe diamet[r]i lata possus corporis duplicem ee potentialit[er]

Corpus .9. basium triangulariu[m] dicta equilatera agita sui diametri conela[m]
rationalem huiusce scripte fabricare scitoq[ue] pilam huius eiusdem corpis esse


me·pm·



semi

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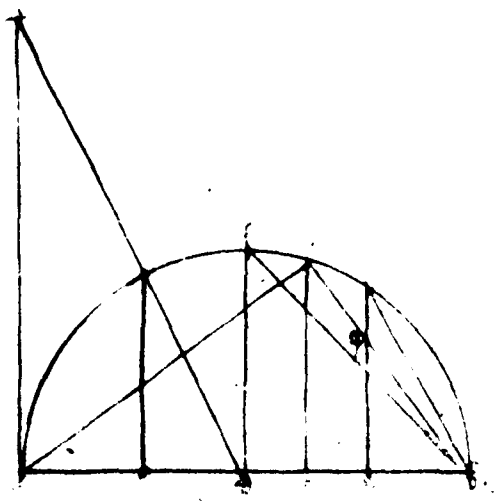
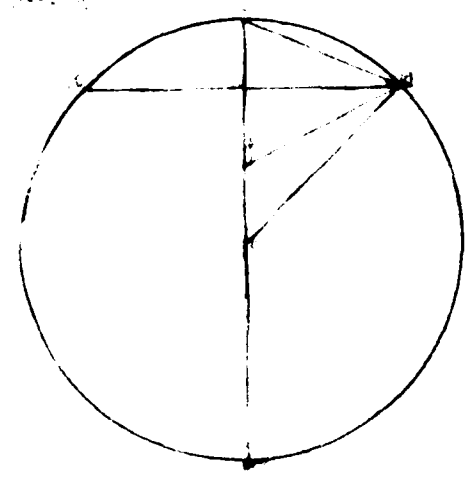
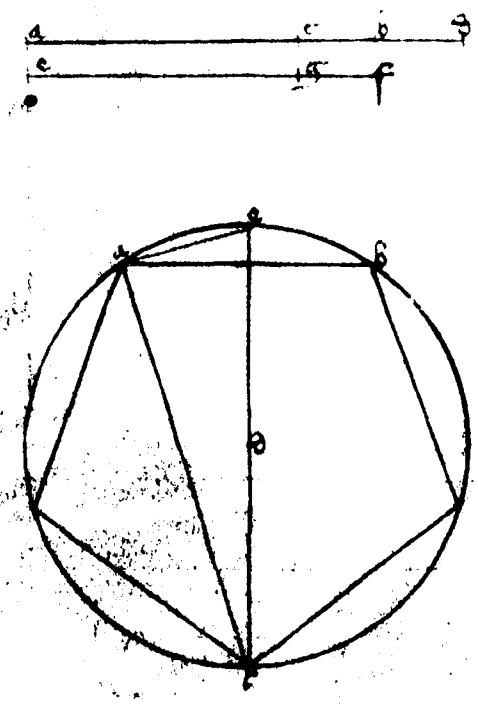






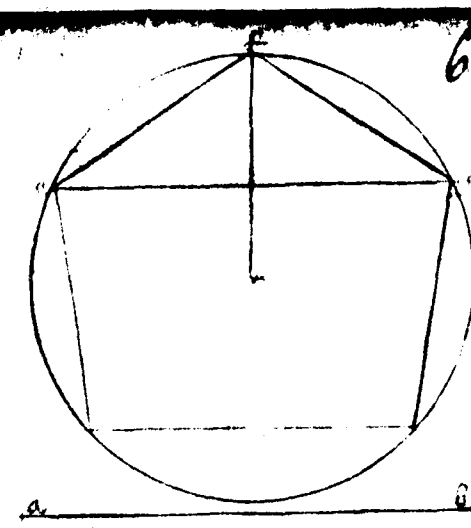
habiente me'm ꝙ duo cõma . hꝰ m . c . da uº m . f . ſint ꝙ maiores pot'nes amb . ꝛc . ultius uº . ꝺf . ꝙ
erãꝫ ꝙ ambarũ ad ſuã maiꝛem pot'nem ẏ vna ꝑpoꝛ ꝺ ambarũ ad ſuã mi'em pot'nem vna rectã maiꝛem
pot'nẽ ad m'em vna ꝛ ecõmo ꝛ pmiſcuim ꝛ diuiſim ꝛ cuiſim n'a aliud ẏ amb quod cũ cmp accipit ipſe
quoꝝ alia accidẽ . oſtẽꝺe ꝛ ego ꝺiſſe'm hꝰ ꝑpoꝛnẽ hinc inde m'em duoꝝ cõma duiſe ꝛ ego pꝰ ꝑpoꝛ . 16 . 6 .
ꝺ ꝙ ſint ab . m . eb . equale ẏ quadrato . ac . cuꝰ ꝙ modo ꝙ ſit ego . ꝺ . m cf . eſt cũſile ꝙdrato . ꝺf . 17 .
ꝑpoꝛ cuius ꝙ ſit ego . ab . m . bc . ad ꝙ'tum . ac . eſt ſicut cuius ꝙ ſit ego . ꝺ . m . cf . ad ꝙtum . ꝺf . ꝺe
. n . ẏ ꝑpoꝛ cõſtat ẽ quadrupli cuius ꝙ ſit ego . ab . m bc . ad ꝙ'tum . ac . ẏ ſicut ego ꝙ ſit . b
ꝺe . m cf . ad quadratum . ꝺf . ⁊ ꝙ ſit ſit ſuppleo ego . ab . m . bc . a . ee ẏ . a . ad ꝙ'tum . ac . ſicut illi
ſuppl' que ſit . b . ad quꝰtum . ꝺf . ẽ ego . ch . ꝙ . a . ad ꝙtum . b . ſicut . a . ad . b . ⁊ ſmiliter pmutim ꝙ'tꝰ .
ad . k . ſicut ꝙ'tꝰ . b . ad . b . ⁊ ẏ . a . ad ꝙtum . ac . ſicut . b . ad . ꝙtum . ꝺf . ẽ ⁊ cõ ꝑpoꝛnes ſit ꝑpoꝛ ꝙ'tꝰ
. ch . ⁊ pmutata ꝑpoꝛ ⁊ cõ mam ẏ quieta ego lum cuius ꝙ ſit ego . ab m . bc . cum quꝰto . ac . ad ꝙtum
. ac . ſicut quadrupli cuius ꝙ ſit ego . ꝺ . m . cf . ꝙꝰto . ꝺf . ad quadratum . ꝺf . ad lũgitꝰ a ꝑ recte
lium . ab . ad vna que ſit cãlis bc . que ducat . bg . ⁊ ad . ꝺ . ad lũgitꝰ cãlis . cf . que ducat . ch . ma'r ẏ
ego . g . ⁊ libri ꝙ quadrupli cuius ꝙ ſit ego . ab . m . bg . ꝙꝰto . ac . ẏ cãle ꝙꝰto ſit . ig . ſmiliꝛ quadrupli
cuius ꝙ ſit ego . ꝺ . m . ch . ꝙꝰto . ꝺf . eſt cãle ꝙꝰto . ꝺh . ac uº ego ꝙ ſtã ꝙdrupli ch ꝙ ſit ex . ic .
m . bc . equi ẏ ꝙꝰto cuius ꝙ ſit ego . ab . m . bg . ego . ch . ꝺ . ⁊ . bg . ſꝰ cãles ſmiliꝛ quoꝝ ꝙ'tꝰ ẽ ꝙ ſit ego
. ꝺ . m . cf . equi ẏ . ele cuius ꝙ ſit ego . ꝺ . m . ch . eſt ẏ . cf . ⁊ . ch . ad cãles ⁊ ſmiliꝛ ego ꝑpoꝛ . ig .
ch ⁊ ego . n . cuius quadratũ . ag . ad ꝙ'tum . ac . ẏ ſicut ꝙ'tum . ꝺh . ad ꝙ'tum . ꝺf . ſꝰ ego ꝛ ꝑpoꝛ . 21 . 6 . ꝑ
lic . ag . ad lium . ac . ſicut lic . ꝺh . ad lium . ꝺf . ac quietim . ag . ⁊ . ac . ad . ac . ſicut . ꝺh . ⁊ ꝺf . ad . ꝺf .
ac uº . ag . ẏ . ac . ſꝰ tãꝫ duplum . ab . ⁊ . ꝺh . ẏ . ꝺf . tãꝫ duplum . ꝺe . quare duplum . ab . ad . ic . ſicut
duplum . ꝺe . ad . ꝺf . ⁊ ꝑmutim duꝰ . ab . ad duplũ ꝺe . ſicut duplũ . ac . ad 2ꝺa . ꝺf . ẏ duplũ . ab . ad
duplum . ꝺe . ſicut . ab . ad . ꝺe . ego . ch . ch . ẏ . ab . ad . ꝺe . ſicut . ac . ad . ꝺf . vera ꝑmutim ⁊ diſiuncti
⁊ cuius ꝙ oportebat oſtendere

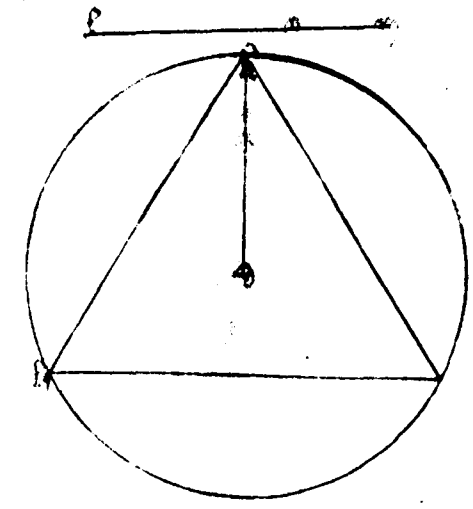
Quod latꝰ pẽtagoni ẏ ꝑ me ſuperficiem medii duoꝝ cõma maioꝝ pot'nes cuius
erit latus decagoni circumſcripti circulo pti pentagoni cõſtituẽte

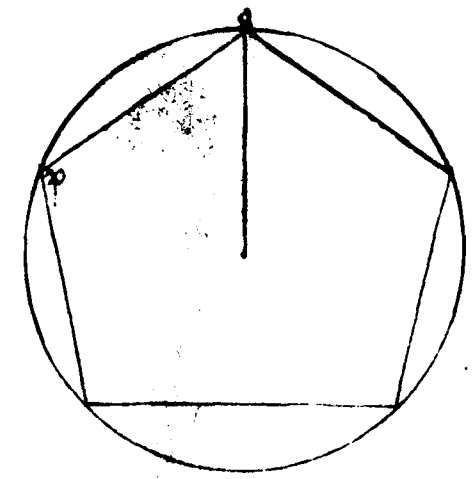
latus pentagoni circuli ⁊ duiſa ẏ ꝑpoꝛnes hinc inde me'm duoꝝ cõma in puncto . c . ſit maior
pot'nes ꝙ ſit ch . ad . eſt latus pentagoni cuius . bc . ẏ latus decagoni ad ſuã . n . ad lium . ab .
. bd . que ſit latus decagoni illius circuli cuius . ab . eſt latus pentagoni erit ꝙ ex . a . in . ad . duiſa ẏ
ꝑpoꝛnes hinc me'm duoꝝ cõma ⁊ maior pot'nes cuius ẏ . ab . la . Cum ẏ tota ꝙdrata . 16 . ⁊ . ad . ſectã
uiſa ẏ ꝑpoꝛnes hinc me'm duoꝝ cõma erit ꝑ 4ꝺam amb ꝙdrata ad ſuã maiores pot'nes bna ꝙ'tꝰ
erãꝫ . ba . ad . ab . ſicut . ab . ad . ad . ego diſſine ' ꝺuiſe ẏ ꝑpoꝛnes hinc me'm duoꝝ cõma ẏ ego . n . ſit
b . ad . bd . ſicut . ab ad . bc . ẏ ꝑ 2ꝺam erit . a . bd . ⁊ bc . ꝑ cãles ꝙꝰto . bd . ſit latus decagoni cir
quoꝝ ego ꝙ ſtã . bc . latus decagoni . cãle ad lium . ab . ad lium . ad . equalis . bc . erit ego . x .
cõ . ad . duiſa ẏ ꝑpoꝛnes hinc me'm duoꝝ cõma ⁊ maior pot'nes cuius lia . ab . erãꝫ ꝙ quidem . a .
ẏ ꝙꝰ ꝙ ꝙ ꝑ ꝙ demonſtrãm ẏ cuius cãle lia . ab . ꝙ latus pentagoni cuius lia . ad . decagoni to ꝙ lit
. bc . ẽ cãlis ⁊ latus decagoni . poſſim ẏ ad ib ꝺ bna ſt libz demonſtrare ſit . n . cf . cãlis . ab .
que ⁊ duꝰ m . g . ẏ ꝑpoꝛnes hinc inde me'm duoꝝ cõma ⁊ ſit maior pot'nes ꝙ ſit lia . fg . ꝙ ſtat ẏ
ego hmſſa ꝙ ꝙ . ab . eſt equalis . ef . ſicut . ac . ẏ cãlis . ek . ⁊ . eb . equalis . bf . cum ꝙ ſit . bd .
ꝺuplũ ad . ab . latus decagoni illius circuli cuius . ab . eſt latus pentagoni erit ſicut duꝰ bm ẏ ex
. g . iz . ad . duiſa ẏ ꝑpoꝛnes hinc inde me'm duoꝝ cõma ⁊ maior pot'nes ẽ lia . ab . erãꝫ ꝙ hmſſa
. ab . ad . bd . ſicut . ek . ad . ge . ita ꝙ cõma ꝙ ſit ch . ẽ ꝙ ſit ego . ab . m . ge . equi eſt ei ꝙ ſit ego . ꝺ .
m . fg . g . ab . ſit equalis . ef . erit ⁊ ꝙ ſit ego . ef . m . eg . equi ei ꝙ ſit ego . bd . m . fg . ẏ . ꝙ ex . f .
m . eg . equi ei quoꝝ . fg . ego diſſine ' ꝺuiſe ẏ ꝑpoꝛnes hinc me'm ⁊ duo cõma duiſe ⁊ eo cõma ꝙ
. ch . ẏ ꝙ ſit ego . bd . m . fg . ⁊ qz . fg . cãle . ad . ꝙ quoꝝ . eb . cãles . bd . ⁊ latus decagoni ꝙ oꝛtebat

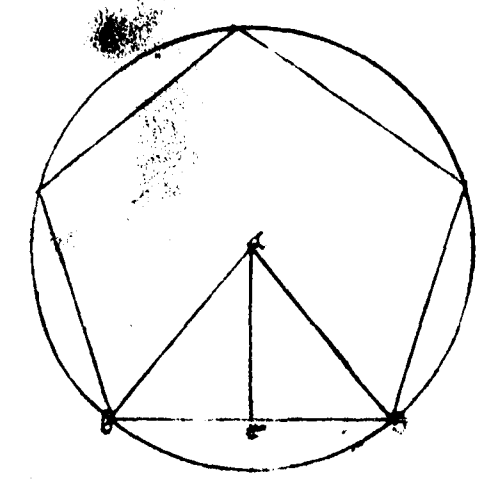
ꝙdratum latꝰ pentagoni unius equilꝝ deſcripti quadratum oſtendẽ
ꝙ hmoꝛ que illius pentagoni angulo ſubtendit ambo hec quadrata ꝑ
accepta quadrato rectãgulo duoꝝ cõmaꝝ eiusdem circuli quicuplũ ex pmutio

. ab . cuius centꝝ . d . in ſpacio unius pentagoni equilateri cuius unꝰ latus ſit . ab . ⁊ pentha ꝺra cõma
. bc . ſubtendens lam . ab . ⁊ cuius gradum ꝙ cãlia eſt 5 arcus . de . metab q' pꝰ ꝺcripcionẽ illius ẽ ip . ac
eſt hoc . q . circulꝰ ꝺſcripcionẽ pentha ꝺre ꝺuc ip . ac . ac . erit ꝙ . ac . latus decagoni equilꝝ cõ
circulus cuius ẏ me . ab . q . pentã ꝺſcripcionẽ lia uº . ac . ſubtendit bm ex angulus pentha pentha . ac . q . ip
eius . ac . eſt duc . q . pentã ꝺſcripcionẽ circuli dº erãꝫ ꝙ ꝙdratum ip . ab . ⁊ . ca . pꝰ accepta quicuplum ſit
ad quadratum hꝰ . bc . ego . q . ꝙ . ab . ꝙdruplum ad quadratum ip . bc . ꝺ . ca . angulus . ace . ſit rectꝰ
pꝰ ꝑpoꝛ . 20 . ẏ . erunt ego circuli ꝙ ꝙdratum ꝺuplũ . ca . ⁊ . ac . quadruplum ad ꝙtum . bc . ꝺ . ca .

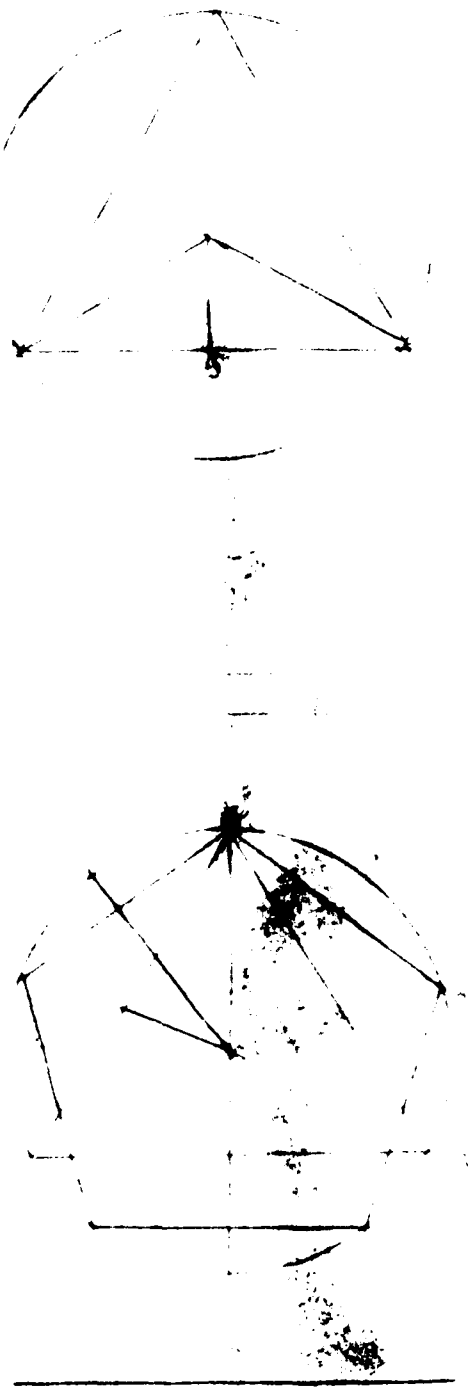






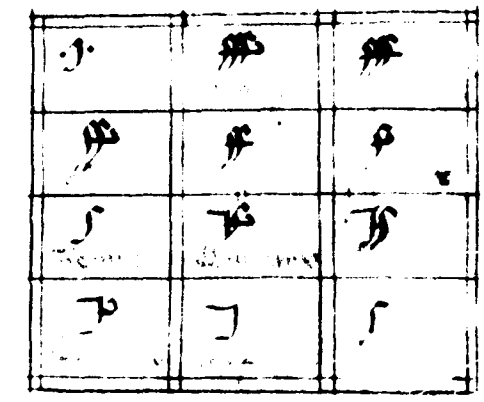


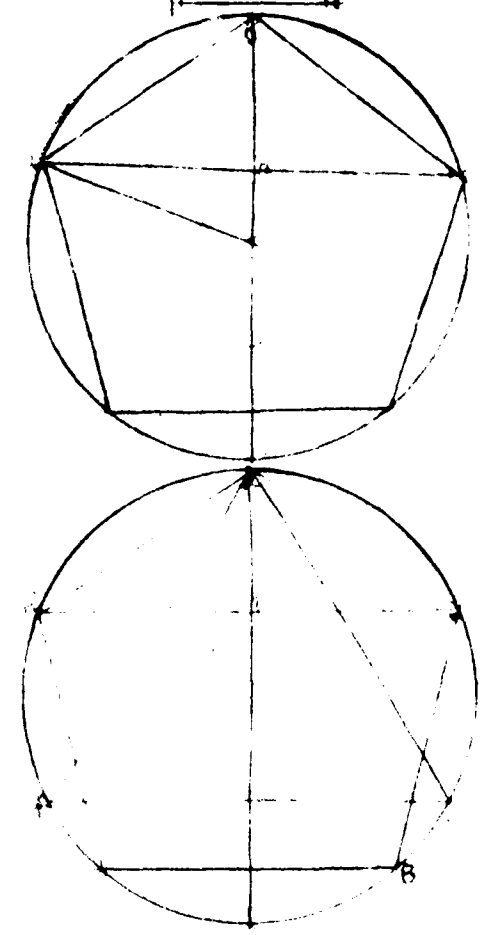
cilatagonus figure duodecim basium triangulus qz figure .20. basiu quas
idem spa circumscribit duo eoz circulum scribunt

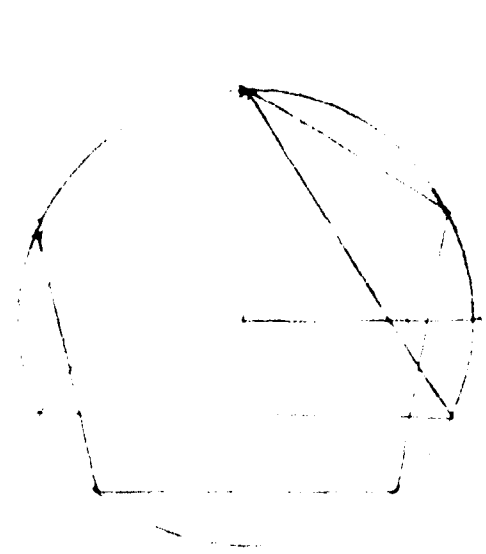


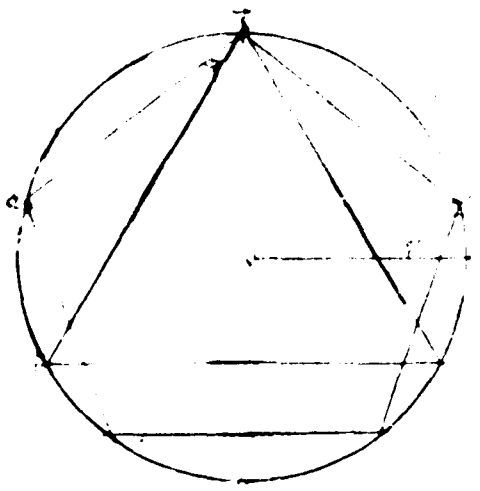
Corpo[ra] tunctar[um] superficier[um] cor[pus] .12. basium p[ri]or acceptar[um] ad tunctas superficies cor[pus] .20. basium p[ri]or acceptas que ab una spa ambo constituunt est tang[u]s p[ri]or[is] latis cubi quem constituit latery spe ad latus tanguli ipsius cor[pus] .20. basium

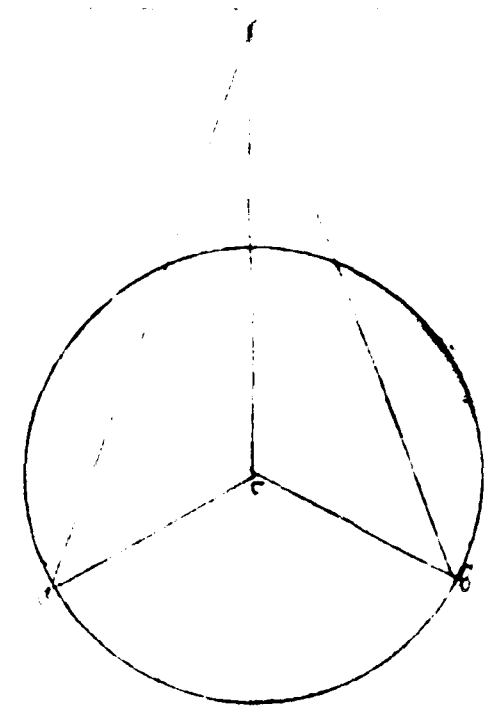
esse ex necessitate oportet











6 **Si aliqua plana superficies secans aliquam planam superficiem secantis et ipsa plana superficies secans sit ad eandem superficiem planam secantis recte erunt communes sectiones ipsarum superficierum.**

Sit a alia plana superficies secans planam superficiem secantis scilicet bc secta superficies secantis a superficie secante planum quod est abc. Dico quod communes sectiones superficierum planarum scilicet ab et cd sunt recte. Quia si non sint recte sit ab recta et cd non recta sed sit ce recta. Et quia punctum a est communis duabus superficiebus planis scilicet superficiei secantis et superficiei secante ergo punctum a est in communi sectione duarum superficierum planarum. Et similiter punctum e est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum b est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum d est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum c est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum f est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum g est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum h est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum k est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum l est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum m est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum n est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum o est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum p est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum q est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum r est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum s est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum t est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum u est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum v est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum w est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum x est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum y est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum z est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta.

Si aliqua plana superficies secans aliquam planam superficiem secantis et ipsa plana superficies secans sit ad eandem superficiem planam secantis recte erunt communes sectiones superficierum.

Sit a alia plana superficies secans planam superficiem secantis scilicet bc secta superficies secantis a superficie secante planum quod est abc. Dico quod communes sectiones superficierum planarum scilicet ab et cd sunt recte. Quia si non sint recte sit ab recta et cd non recta sed sit ce recta. Et quia punctum a est communis duabus superficiebus planis scilicet superficiei secantis et superficiei secante ergo punctum a est in communi sectione duarum superficierum planarum. Et similiter punctum e est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum b est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum d est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum c est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum f est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum g est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum h est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum k est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum l est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum m est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum n est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum o est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum p est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum q est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum r est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum s est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum t est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum u est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum v est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum w est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum x est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum y est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta. Et similiter punctum z est in communi sectione duarum superficierum planarum. Ergo communis sectio superficierum planarum scilicet superficiei secantis et superficiei secante est linea recta.

In figura aliqua fiunt circuli equales pendentibus ductis ad rectum super ad superficies illorum circulorum erunt ad unum punctum equales

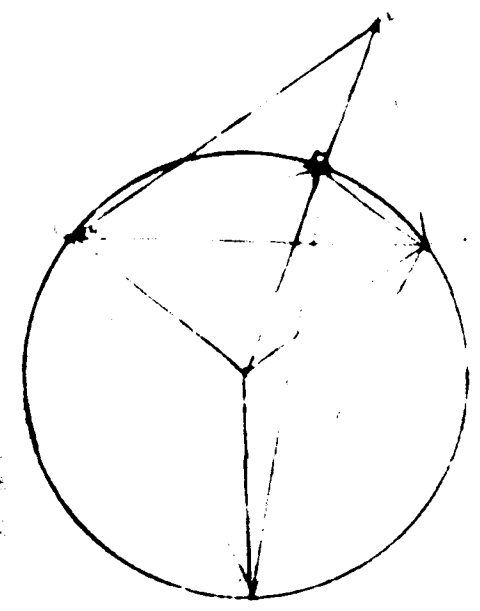
Sint in figura cuius centrum a signata duo circuli bcd et efg equales habentes centra h et k. Et ducatur ab a centro h ad centrum k linea recta hk. Et ducatur a centro h ad superficiem circuli efg linea recta hl perpendicularis super superficiem circuli efg. Et ducatur a centro k ad superficiem circuli bcd linea recta km perpendicularis super superficiem circuli bcd. Et ducatur linea recta ml. Dico quod linea hk est equalis linee lm. Quia si non sit equalis sit hk maior quam lm. Et ponatur linea hn equalis linee lm. Et quia linea hl est perpendicularis super superficiem circuli efg ergo linea hl est perpendicularis super omnes lineas rectas tangentes circulum efg et tangentes lineam hn. Ergo angulus lhn est rectus. Et quia linea km est perpendicularis super superficiem circuli bcd ergo linea km est perpendicularis super omnes lineas rectas tangentes circulum bcd et tangentes lineam hn. Ergo angulus khn est rectus. Et quia angulus lhn est rectus et angulus khn est rectus ergo linea hn tangens circulum bcd et circulum efg est perpendicularis super lineam hk. Et quia linea hk est equalis linee hn et linea hn est equalis linee lm ergo linea hk est equalis linee lm. Quod est contra suppositionem. Ergo linea hk non est inequalis linee lm. Ergo linea hk est equalis linee lm. Et quia linea hk est equalis linee lm et linea hl est communis et perpendicularis ergo linea kl est equalis linee lh. Et quia linea km est perpendicularis super superficiem circuli bcd ergo linea km est perpendicularis super omnes lineas rectas tangentes circulum bcd et tangentes lineam kl. Ergo angulus mkl est rectus. Et quia linea hl est perpendicularis super superficiem circuli efg ergo linea hl est perpendicularis super omnes lineas rectas tangentes circulum efg et tangentes lineam kl. Ergo angulus hlk est rectus. Et quia angulus mkl est rectus et angulus hlk est rectus ergo linea kl tangens circulum efg et circulum bcd est perpendicularis super lineam hk. Et quia linea hk est equalis linee kl et linea kl est equalis linee km ergo linea hk est equalis linee km. Et quia linea hk est equalis linee lm et linea hk est equalis linee km ergo linea lm est equalis linee km. Et quia linea lm est equalis linee km et linea hl est communis et perpendicularis ergo linea hl est equalis linee hm. Et quia linea hl est equalis linee hm et linea hl est equalis linee hk ergo linea hk est equalis linee hm. Et quia linea hk est equalis linee hm et linea hk est equalis linee km ergo linea hm est equalis linee km. Et quia linea hm est equalis linee km et linea hl est communis et perpendicularis ergo linea hl est equalis linee hk. Et quia linea hl est equalis linee hk et linea hl est equalis linee hm

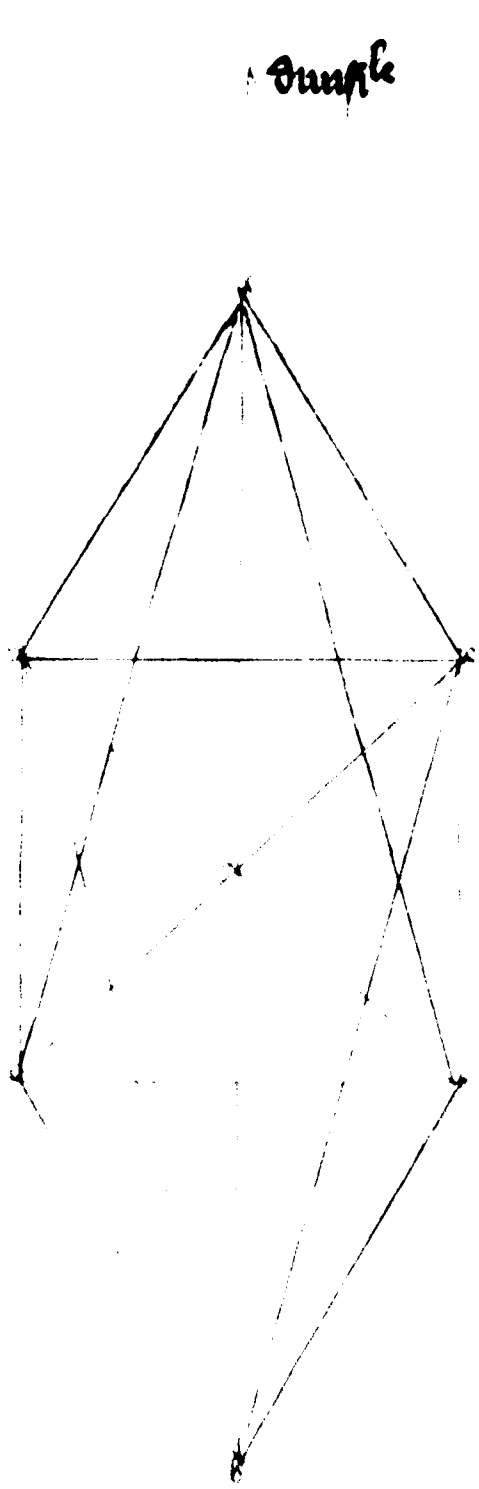
n oñi triangulo equilatꝝ ſi ab vno angulorꝝ eius ꝓpen̄ ad baſim ducat̄
ad latus eiuſdem trianguli ad ꝓſimum ꝓpen̄ potentialiꝫ ſeſquiter̄ cet ꝗt

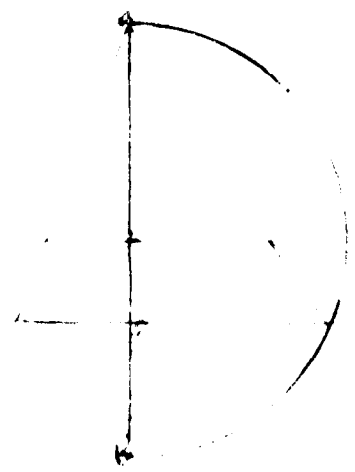
uilꝫ trigonus equilaterꝫ cuius latus eſt rationale ſuꝑficies medialis ꝛc ꝓbatur

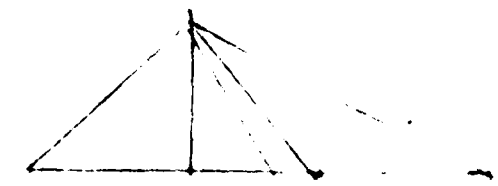
uicte ſuꝑficies utriuſlꝫ duorꝝ ſolidorꝝ quorꝝ ille eſt ꝓmus ·g· baſium tan
gularium ⁊ equilaterum reliquū vero corꝑus ·g· baſium triangularium ⁊ equila
liter accepte ſi diuiſe ſint ꝛc ea tantuſtribuentis in alio fiāt corꝑus ꝗuꝑficiem

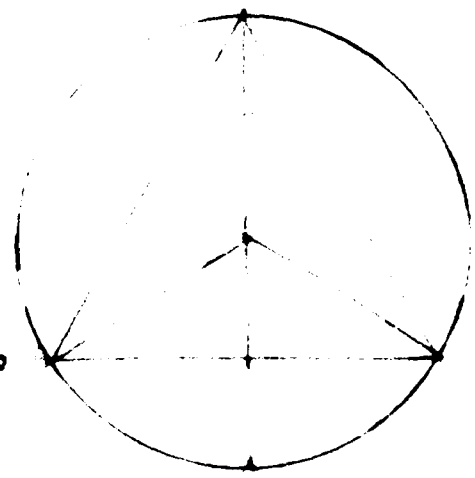
l tetraedron ⁊ octodron vna eadēq; ſꝑa circumſcribit erit vna ex baſibꝫ
tetraedri ſeſquiᵃ ad vnam ex baſibꝫ octodri omes ad baſes octodri ꝓpter ac
ꝛtis ſeſquialtum ꝓꝓꝛnes habē nōn eſt

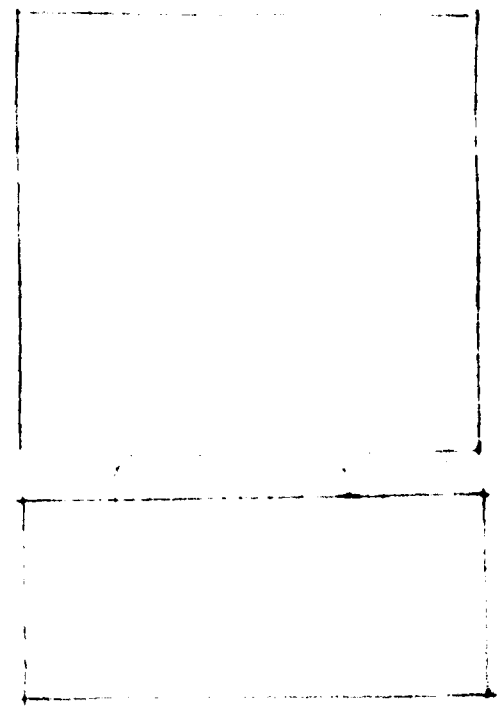


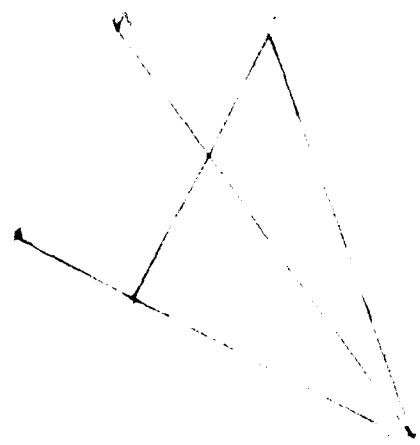


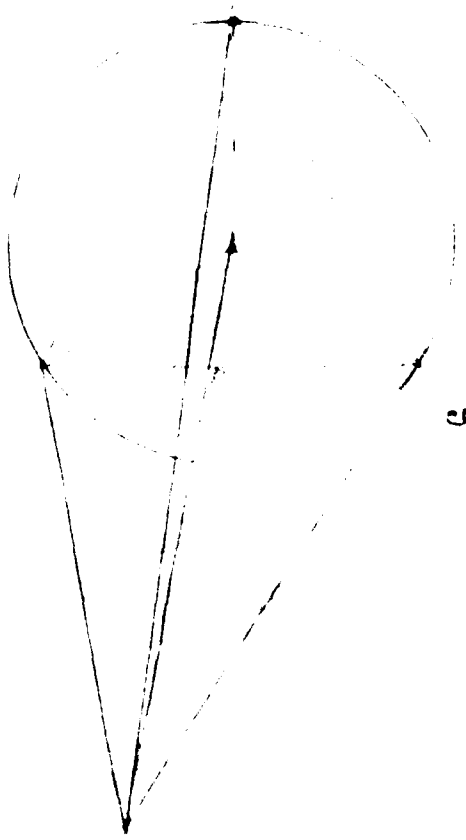












ıplium quidzti ıſd ex diametro ſue cubium cclim ſcribitis deſcribitur cōſtt
nibz ſuꝑficiebz ꝓpius cubi ꝓ acceptis ſ ꝓpn̄ꝰ quoz qlc acentro ſue ad
ex ſuꝑficiebus cubi ꝓduatur mechetata cubi cuiuſcuq; equalis cc ex ntitate
mam 2. n. ge cor. ne. 12. g. dne ſue cubim gelu ꝑ ꝓpa. 2. Ultimus cubi cum ſ quadratum
mee ſue ſt cclim. ad quartum cubi dupli ē diametri ſue equū ē duplo. e. cubi
ome ſuꝑficiē cubi. e. quinte que ex latꝰ cubi mē ꝓdit duc duplū quart
ſuꝑficiebz ſcubi aſtare ſ ꝑ ꝓb ꝓ am ꝑ ꝓpm ꝓ. 18. e. 19. mā. 20. n. libri ſcā ꝓbat
ſ cue ne mee ꝓ ut ex mee latꝰ cubi m baſe quadrata 2 diametꝰ ſue ꝓpe cubi ambiēt

ntm poſitum cubium corpus hmō. e. baſes tangulas
equaliū latim deſcribere ꝙ cubi cuiꝰ baſis 2 quadratum. abe. ſcōm
ſuꝑficiē quatum. efgh. ꝓpm a hac ꝓpe fabricare ut ei baſi ſ g. h. lium ex. ef. ꝓ
ꝓpto ſuꝑ ſm los cuiꝰ angulos ex 12. n. ſ. bri hec ſ meſtm lateꝰ ꝓpe quā ergatur
ex. g. n. conſtare ē cālē diſtantie quia ſ bm cubum corporis cui impoto ē ſtm
latꝰ quā ꝓdict aſtare ꝙ ē ꝓpm cubum ntm. e. cuiꝰ latꝰ ſuꝑficiē ſ quadratꝰ 2. e.
cuiuſ ex diſſīne ſuꝑficiē deſcribim. a ſuꝑficiē m. im 2 quoz g. nota 2 quarti 2 hec ex ꝓſtat
equalibz ſ equila ē quoz ſ equile 2 ex diſſīne ſuꝑficiē. tota huic cubo libeat cor
. e. baſiū tangulariū 2 equilatꝝ miſtē mbaſi 2 m cuiꝰ ſuꝑficiē ꝓdict ſue diametꝰ
ꝙ bn. 2 ortꝰ ex omnib. 12 ſmilib ſuoꝝ cubi cor. 2 ad ortꝰ ſuꝑficiē aliop ſuoꝝ cubi
mee ex. 12. e. bſ. deinde duob. pimetꝰ. n. 2. f. eminentib diametꝰ ſuꝑficiē ſcōm ſubtile
thematis ōnibz bmis auc. e. licet ſuꝑficiē quadratꝰ quas ymaginam ē cubi. quod ab. e. ſit
ab. fa. 2. fe. lis 2 diametꝰ ſ hac plana ſ ꝓtē ꝓpe ꝓtē ſ ne mit de hac ſimiliꝰ mee cubum ſ
ſtam ſ. me ut ex 10 apicibꝰ mdebit ex. 6. diagonalibz hui. 6. ſuꝑficiē ipi cubi cuiꝰ. e. baſis tri
angulꝰ ē ꝓtm ꝙ cubo ſuꝑtē ex diſſīne aſtare ē m ſtram huiꝰ ē pyrā baſes equilatꝝ ſtare
ex. 12 ꝓ ꝓmo ſtē. e. diagonalibz ſ ad mbitē equalēs ſe uocat ē pyrā. e. baſiū tangulariū e

ntm corpus dictum hmō. e. baſes tangulas atq equilatas cōz
. g. baſium tangulariū equaliū latim diſtingue ꝙ tm mea pyramis. e. baſium
gulariꝰ 2 equilatꝝ. bcebro libeat miſtē cubo ſue ꝑ pyramis ꝓpm fabricare que ſane ea ſm me opus
deſtruatur ſ cuiꝰ hō ꝓpe ꝓpe ex ꝓmis equilatis miſte. abe. cui ex ſtri ē cubus ſup cētrū
exeat. de. ꝓpendēs ad ſuꝑficiē ipſius ex ꝓmi ex. 12. n. auc ponatur ſimiliꝰ ē impō ad ſtm
ē ex ſtrōrū ex ꝓmi. abe. 2 axis meo e. addant. 2. ypothenuſe ſuꝑ ē ꝓpm. abe. eſt pyra
plus ꝓpyramis. e. baſiū ē latꝝ ſ 2 equilatꝝ ꝓpēdens. n. da. 96. de. a ꝙ an ꝙ quos ꝓpa. 6
ſmles his. da. 96. de. ſunt rō ex diſſīne ꝓpendens ad ſuꝑficiē cum ꝙ ē ꝓmi hec ſit. ef. ex ꝓpoſ 8
ad quadratum ſemidiametꝰ abe ē cubi erit ex penultima. 12. ē. cum omnibus cuiuſ. 2. ypothenuſe
ſ. eb. ea. ē ꝓpium ad quartum ſemidiametꝰ ē cubi ef. g. 2. quatum quoz cuiꝰ ē ſm latꝰ cubi
ē ꝓpium 2 ad quartum ſemidiametꝰ ē cubi ꝙ omnia ſed latera pyramis ſ ad mbitē equalia ex ipa
ē ſm baſiū ortē 6 octocētoꝝ 2 cubi volumꝰ quod ē omnia ſ. g. latim cuiꝰ m quo me ex
a equalibꝰ ē me ꝓnctum ē mebus ꝓnctis cunctoꝝ latim reliquoꝝ ꝙ ab ipm ꝓtē
hiem ꝙ quidam lata baſis m ꝓnctis. ſ. h. 2 ypothenuſas cadere m ꝓnctis. ade. hui
2 ex multis ꝓnctis. f. a ꝓncto. g. ſ. ē mihi. ſ. ē mi. ba. 2. g. bl. ꝓnctū 2. m. quaſ. 2. g.
ex ꝓpm corpus. g. baſiū ē angulariū huiuſ. 12. me ꝓnctis latim fabricare pyramis ꝓtē
ſcalꝰ has ſ. g. baſes ꝓp. e. ꝓ quotiens oportet repta equalitas ē manifeſtꝰ corpus ꝓpm
ſtatur pyrā ex diſſīne pyrā miſtē. g. ad miſtrum ē ſfice

ntm cubium aſſignatum figurum. g. baſium tangulariū equaliū latim
ſtitue Quadre ē cubum a ponere oportebit m ꝓa huiuſ ſuꝑficiē bōz m fabrice cubi pyra
2. baſiū tangulariū ē ē cubum latim m ea ꝙ ex ꝓmi deſignē ſ. me ꝓpe ꝓtē
ſue deſignare ſ ſm ſe ſm ſ ſtm ſ ſtm ſ ſt

Liber ultimus corpus .g. basium triangularium acz equilaterarum cubium figurare

Hic dubitees corpus .g. basis triangularis acz equalis lacris ceo dogmate fabricabis ho
[illegible] recta sup aliquot planu sursum orthogonaliter erecta cam p equalia duabz z g puncto
[illegible] quarlias hinc inde oppenes cohic que groniter dam una erimt q due hec mbris secam
tes bin liez pma que sepone planu est orthogonaliter erecta z alia que opem sup eius me quincte orthogo
naliter secant in cadi superficie sicut p pma pte 25.11. ad superficiem g in qua recte sibi sibe sup omnes pun
ctum sectionis cam q3 educat .n.n. oppenem erige quam equalias eandem superficiem in terminos pte
nentes z pone cuncta .6. apparentes hanc tam inicam a puncto in quo mbris secant li
nie sic .n. quib3 q3 cadia z orthogonaliter duabz recta g g sint .3. quecque due salubriter circulos contin
gentiu ad angulos rectos gomebunt a superficie q3 erecte linie supponam planu cuncto .g. ypothenusa
rum dicuncias ad gomtes duarum hinc secantium bembe ab infimo eius erecto .g. linee ypothe
nusarum ad cadi .g. duarum secantium hinc cam gomtes cleua postrema hanc ypothenusarum gomtes
cadibus rectis q3 tactum gelat erunt .n. hec 12 linee inde .g. ypothenusarum a supremo puncto erecte oppenes
existentes .g. q3 postreme ab eius infimo in puncto sursum cleuate z reliquo .g. linee hanc ypo
thenusarum gomtes gentes ex pennula p fine nigramen pacto plumes repecta ad mbrem cadibus equa
lem corpus ab eis factum .g. basium triangularium equilaterarum gomi, si q3 hinc cubu corpus mirifice
ducit debem3 oppenes .g. triangulorum rum ambientium mbrem ex .4. g. labora cadi repecta .12. linee
rectas de lege operis ut oppenes cuiq3 horum tam q oppenes cuiq3 tum ad ipsius lacri elimatorum pertaz
lium rectum. nota z d ytonem huius rei fiat. in plinio deprehendi. restat ut q due mente geometras
rum ac si placeat actu z ope applicas inde bis .n. 12. linias horum tam q oppenes postea lege geometri
ce eadem gemine quin restat ut equilateris triangulis q3 superficialibz demonstres et gelidis nota .n.
rum cubis q omnes eius superfies sint equi, ducito q3 acutos angulos trigonorum bicorporum oppenes
dictarum illi angulo opponas has d oppenes ex .4. .g. .12. q3 stant et mbrem equales z diuide lacra
quales oppenes constant p equalia 10 binas z binas sup 10 puncta lacris tui superficie ire cadi
um stant ex hijs que in .12. demonstrate sic p oppenes trigonos 10 z gomtes lacrum melius cubis
similes ut ub corpus per nes que mem oppenes trigonos z lacra possis mediante ex hijs quem ei
mensura sic q stant et equales angulos quos ab hijs oppenibz binas z binas coeuntibz ex .8. p pa
res equales z qua hec oppenes sueaz per nes in fra lacra z oppenes medepre corpus angulos ri
dum erunt .q. angulis quorum lic accipiendis trigonos ad lacra oppenes cadentes binas z binas gomi
ad mbrem equales, Cum q3 lacra illius corpis de quo disputamus hos angulos subtendant sequi
tur .c. p frequens supra corpus melius et equilaterum acz rectangulum pentagonum .n. decagonum in
cubi superficibz hos trigonos ex .c. p omes ad mbrem cadibus et coincidentes medianis angulis
planis perpendicularibz p nostros trigonos ex gomtes existentibz rectis si duos hos angulos ex
p p[illegible]es b mbrem planis Cum q3 trigonos tetragonos basis hui corpis sint ad mbrem cadibus
dictum corpus basium equalium et nocet z ex .8. q p mbrem rectis trigonas tetragonas et cadantes
.12. omes angulos cuiq3 cuius q3 cadibus sequentes cas et rectos, vero postremo q3 oppenes
[illegible] corpus mari z et cubum scitu necessarium

Quinquedecim quatuor basium triangularium acz equilaterarum assignato cor

·8· basium ṫangularū quoꝝ arꝫ equilaterū inscribere

...co duodecedro sibi demum octocedro uendit

Compo duodecedro ... m.u. ...g. Glacia quam ... ca ubi que thachecos ... cubi ... ...ecb ... corpa ... ...ubi ... ...ubi ... ...ubi