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Tabule Astronomice Bini Alfons Regis Romanozü et Lastelle:

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2Denses, 5. Dies. 20.

Aunif.curretiu. Nueranoz plectozu, 1491.

4

fo.3 3. cupio alicuius ere note a proposite per primam. sc precedente propositione: Luncer tado bula disferentiarus quius regni ad aliud: scias disferentia inter eram cognitam a incop

gnitamiatit ecouerso: videlicet quot 4 3 2 et 1 fint intereram tibi notam valia igno 4 tam. qua viferentia serua. Deinde scies etiam virú era cognita precedat eram incognivamiaut ecouerso. Quo cognito adde viferentia. s 2 et 1 que sunt iter vuas eras ad 4 3 2 et 1 que sunt iter vuas eras ad 4 3 2 et 1 que sunt iter vuas eras post augméti vel viminutione puentes ostèdit 4 3 2 et 1 a pricipio illius ere scognite ptrasta vse ad tos sosterationis tue: vel tepus propositu. Ulerbi gra. Ulolo ere igno re. s, a tre visuali vse mo qua tertia res scieire per quarta tertia re. trasacta a tempore ere sinstitut vse in tempus presens. s ad vigestimi viem Juni anni currentis. 1 492. que mibi simt nota per propositionem prima. s precedente provimo. 2 sunt 4.2.3.3 1.2.19.
1.19. Tuc videbo in tabula visterentiap re. quo addam ad illam quam babui: qr Dilunium precessit Loristim. 2 propositionet 4.7.3.46.3.1.1.5 8. Et est propositione.

Propositio tertia.

Re alicuius quartis tertifs fecidis 2 pzimis eognitis:numerum and nozum mentius 2 vierum in eis contentoz inuenire. Et est conuer sus pime propositionis. Si volueris boc: Intra cu numero quartoz 20. 10.3 4 a pzincipio alicuius ere pertranstoz in tabulam propria illi ere: que tibi per titulos patebit: videlicet Quere eu numerum in quatuoz oz dinibus numeroz kquentibus ordine primum. fizannozu collectorum. Et si eum numeru poteris precise unuenire: annos quos suuene

Tis in virecto (criptos in bzimo vidine numerozuz funt anni quos cheris correspodim 128. Si autem en precise non inueneris tunc quere etiam in eades tabella numeril mino rem propinquiorem. 2 nueru annozii in pirecto inventijextra scribe. Dostea illa 4 3 2 et i quozi numerus erat minoz di numerus illozii cus quibus debebas intrare: fubtrabe ab illis, z cum readno: vel cum minozi propinquiozi intra iterii tabellaz eandem: vel annozum erpāfozū:in quibus poteris illū numerum vel minozē pzopinguiozem inuenire. 2 fember numeru annozum in Directo inuentoz feribe extra fub aliis pzius feribtis. Deinde semper cum residuo toties intra tam in tabellas annozii collectoz ci expansoza 2 etiam menfii: femper Inbtrabendo vt prina. Et annoa 2 menfea quos in virecto cori immeneris: sub alis anis scribe: quonso: nibil stresidui de propositis quartis tertijs secis dis 2 pmis. Clei faite fi fit refiduu: 2 fit ita parum op no poffit coplere me sem fequentes: tunc illud refiduum erit vies menfis incompleti seguentis menses quos per operatioes inuenisti, pel erit oies omi mensis nondú completi si nullu; mensem babussi, 2 qõepue wit: est propositif. Sciendum tri in ista ppositione a in precedentico si annua incopletua foerit comunis vel no bifertilis opentette intrare in tabella menfiñ vel fuperiozem vel #028.2 fi fuerit bifertilis:intra in tabellam mêfiti inferiozê yel posteriozê. Sic enim uncu ጩ in tabellis fuis cuplici pofitione tratione optifici corente) intuenti, eas le offerent. Duins rei boc vide exempli. Sit Ere Diluni numerus reducendus in annos ? men Les Christi eciste. 417.3.46.7.2.7.58:5ed quin querendo istu numerunt tabula proc pala. fcz. Chaift in quamos ordinibus nucroz post linea numeri annoz cum precise non 10.34 innento: accipio igif numeru minore propinguiore ei: bunc videl3.4.6.3.45.2.50.1.0. cuius annos in virecto fibi correspondêtes scribo extra: videls. 4000. Residuü ex subtra ctione minoris a majori nueroz iam babitozioroueniens estiste: videl3 4.1.3.0.2.12. 1.58. Sed querendo in tabula istu numeru cum itez non inuenio precise: accipio ergo iter i numer i propinquiore; bunc videlicet 4.0, 3,50, 2.43. 4.49. Luius annos in due

cto fibi correspodentes iterii extra notabo: videlicet. 5 00. Refiduii autoz iterum ex sub tractione minozis ve. pueniens est boc:videlicet. 3.9, 2.29.1.12. Sed queredo itez uo inuenio eŭ vt 8 nuerus minoz ppinquioz est iste. 3.8.2.7.1.0. Lujus anni cozrespoden tes füt. 80. Refiduii itez modo quo fupza pueniens est boc. 3.1.2.22.1.13. Quod que rendo quia nó inuenio id in tabula annozú collectozi: sed in tabella annoz ernansozus non tri precife inuenjo. iccirco accipio iterum nijerii ppinquioze minozem: bunc videli cet. 3.1.2.19.18. Luius annos correspondentes iteranoto egra; videls, 12. Residuus vitimo er bis subtrabendo pueniens: que queredo ipsum non invenio in verison tabel lis:invenio id in tabella menfin superioz: quannus no est bisertilis: sed no precise. 20i noziaitur ? ppindozest iste: videlz. 2.3.1.1. Lui correspodent menses. 6. Etier subtractione istorii vitimo ouorum restant. 4. qui sunt vies. Qui anni ita extra scripti simul ad diti erunt illi qui a artis tertijs va. illius ere continebant numero. fc3.45 9 3. 2Denfes. 6. Dies. 4. Et boc est prositum. (Der ista propositione 2 ouas precedètes Ere cuiuscis en volueris poteris babere noticiá: oum tri alíqua er eris bic positis sit tibi nota. Notes enim verbi gra cognoscere per pma ppositione 4 3 2 et i transacta a tempose Libristi plas in tempus presens. Per scoaz vo profitione 4 3 2 et i a tempore Distunis vsa ad tempus Lbzifti. Et per plentem ppolitionem poteris scireannos a tepoze piliuni vica in presens tempus. Et est ide un omnibus alisseris zc.

Propositio quarta

10.39

do numeră minutoză boze în linea numeri: z illud quod invertes în prima linea polt li neam numeri (unt minuta vieră z în sequenti 2 postea 3 saut patet per substriptionă. Deinde si babes 2 boze întra cumeia în eande tabellam în linea numeri, z tunc illud qo invenias în proxima linea post lineă numeri: sunt 2 vieră; z în sequenti 3 postea 4. Clutra si intras cătertijs bozarătunc în proxima linea sunt 3 vieră. Et îta scu quartis boza tum intras; tunc în prima inventa linea sunt 4 vieră, s sic ve aliis. Ouofacto adde oia ad inuice quodlibet ad suă genus, 2 qo post additione provinerit: erunt minuta 2 2 2 3 et 4 vierum: bozis prostitis 2 bozară minutis secuidis 2 tertijs equivalentia. (Sint epă pli că boze: 14.16, 3 6. sco. Similt inventia minutis bozară. s 6, in linea numeri minuto rum: invento în virecto eva sin. 1.2, 20. Similt inventia minutis bozară. s 6, în linea numeri minuto rum: invento în virecto eva sin. 1.2, 20. Similter în est de lineis numeri siuetis scoia. 45. intipenio în virecto mută do venominatione 2.1.3, 5 2.4, 3 0. Quessimuladita suri tin. vieră, 3 6, 2, 1, 3, 5, 2, 4, 3 0. Et ita inceteris, Et babes propostum.

Deopositio quinta

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Inuta dierü et i zizad die si minuta bozaruz zi reducere: seft conuerfum profitionis precedentis. Thumeru minutoru die rum quere in linea numeri in tabula que Louerfionis minutoru die fo. 3 9 rum in bozas ziminuta bozaruz zi inferibitur. Et numerus que in ueneris in prima linea: funt boze: zin fequenti minuta bozaru: ficut fupraferiptio manifestat. Scribe ea extra. Deinde intra cu fecundis pieru in lineam numeri in eade tabula, ztunc qo inueneris in pro-

rima linea funt minuta bozarů: 2 postea 2. Scribeea sub alije pue scriptie: quodibet sub suo genere. Deinde intra că tertije dierum si babee 3.2 illud quod inuenerie in pri ma linea sunt 2 bozarů: deinde 3. Scribeea sub alije prius scriptie. Et sic semp musas denominatio suprascriptionie scom dinersos introitus. Quo sacto adde omnia ad inui cem: 2 resultans propositum. Dec quia facilia sunt intellectu industrie cuiuscum relinountur exempla.

Propositio serra.

6



31.

Dtam anni menis vel viei cuitifuis:boc est seriam:per tabulă ad boc sav ctam intenire. Preductis annis mensibus 2 viebus ad 4 3 2 et 1 per primă buius: Accipe ex tabula notaru anni scribendo extra radicem id est numeru feriaru per quem intrauit illa era ad quă operaris: quam ba bes in tabella in fronte tabule. Deinde cu numero quartoru intra tabulam Trotaru in linea numeri comunis, 2 numeru intentu in virecto sub numero tituli quartor scribe extra sub numero radicis. Eode modo sac ve tertijo secudis 2 pmis: scribendo vnu sub alio. Dostea totu; adde si-

Propositio septima.

7



Otum celestium quelibet verum: id est püctü Zodiaci sub quo mo tus sit centraliter celestis corporis: Scoi videl; mobilis: boc est Augium 2 Stellarü sixarü Sideree sphere; boc est trepidatiois vel Zo cessus 2 recessus. Item Solis et Lune Planetarum quad quodcü quempus vatü siue eram vată. ad quecu que meridianu per tabulas ad boc sactas iuenire. (PADotă veru que cu que iuenies po sacile: st trib urtabular (gb? rei gra sut coposite) vispone pus itelliges. Sicut eni

Dinictione cuinfeine veri motus ad tos datu necessario ocurrut tres res. les Radir: 200e ding motus: 2 Equano: obus verus motus elicitur. Ja & tabule tres buius rei gra funt composite. Quarii pma est tabula radicus. Secunda tabula medii motus. Tertia tabula equationi. Quari expositio quo ad osspositione coperatione ordine subsequitur ara tia maiozis comoditatis. (Sed antea & ad rem ipfam accedamus: cum in tabulis bis motuniyt plurimu figna planetech: yt bzenitati comode confulet :characteribus fuis no Tati inueniunt: Preterea bic infra posuimus Lbaracteres 7 nomina fignozu ac Dlane tarum ato: Aspectuum: vt intuenti patebit.

han	Lbaracteres et nomina.		Lbar. 200.plap.	& Laput & Lauda	30
		7 A Libra. 8 m Scorpio.	2 7 Jupiter 3 3 Mars	Lbä. 200. Aspec.	p
1930	3 II Bemini. 4 S Lancer.	9 A Sagittarius.	140 Sol	& Oppositio A Trinus	
Saq	5 82 Leo.	11 m Aquarius.	16 & Mercuri's	│ □ Quartus ★ Septilis	
\$ CO /-	nnaprahmaga Lup	Propositio octava	וועברם לפרובו ער פרוב	8	

10.40



X tabula radicu radicem quactics invenire. Dispositioe tabule ra dicum cognita: inuétio radicis facilis erit. Labula radicum 02 comunis est ceteris:radices omniù motunz a raumentozu mediozù continet in tabellis, 17. particularibus: quibus vinisa est. Er quest bet tabella in oeces: jurta pecé eras bic postras ofiniditur radices il lis eris i fertientes: vt nemini cuiulcio: nationis ? vius eraru; cal culandi er bis tabulis motus veregetur comoditas. Sed quia nos ob bonozem offi nostri Jesu Chzisti potius sua era sacras vti Lbzistiani nominis bomi

nes decet) ytimur: ? frequentissime: radices omnes incarnationis Lbzisti conscriptas motuti in finaulis tabellis: yt promptior effet nobis eor inventio volentibus ipfis yti charactere crucis in pricipio posito notani no incomode. Que omnia in tabula ipsa ma nifestissima sunt. (Est zbicnotadum: o tabula ista est oma tabulaz motuu: Tam ad inueniedum alique motum ea pmo indigemus. 2 ablos radice impossibile est aliquem Radir posse mori invenire. Linde sciendi: o radir motus alicuius nibil aliud est di locus cir ruli fignoră în quo fuit ille motus in oncipio illins ere cuius est radir. Clerbi afa. In ta bula radicis Solis radir incarnationis Libriff est 8.4.8.3 8.17.21 28. boc est vice re voi terminatur numerus in Zodiaco: incipiendo coputu ab Ariete in meridie vitume viei Decembris: fine in pacipio Januarii. Ivi enim vies Januarii panus incipit in meridie: vin sequenti primo sui psius vesinu meridie: Dies nage semper a meridie viei pre cedentis incipiendo vigi in primus legnetis viei mericie purat more Aftronomico e scirco potius in meridie qui pare fit nobilioz ofeis poter vim magnă a foztitudine solis qua radius fuus fortius ? validius in bec inferiora infigitur: cum fit ppendicularis in il La parte viei. sez in meridie sole ibidé existête. Et boc intellige de omnibus medis moti bus. Radir vero alicuius argumenti loquedo ve argumeto in epiciclo:est vistantia con poris Planete ab ange media exicicle in Encipio illius ere cuius est radir. Clerbi gratiat In tabula medicii arguméti Lune radir Incarnatiois est. 5. 3. 3. 19. 26. boc est picere 12

noce, visti in incivio Tanuarii vel in Vitima die decebris ficut diri: distita comorio & Lune ab ange media exicicli fuit tanta. Sicut enim medu motus computant ab Arrete in circulo fignozzita argumeta media ab ange media epicicli coputant. (Deterea est sciedus radices istas omnes istius tabule esse firmatas sup meridianu Toleti: quod est oppidu pispanie celebratisimu: voi tabule iste motuu olim ouctu illustrisimi Al sonsi regis Eastelle fuerunt coposite. Mon tri ob boc cetera loca fraudentur. Sed que admodu ipfie radicibue'no mutatie quafi cões omnibus meridianis ytemur; ppolitio sequens primo edocebit. Dicunf aute radices iste scom quada similitudines. Sicut.n. radir marboze est fundametum augmeti z fructuú: z plupponitur radir in arboze. Sie motus celestiu ze muenti ad eras bie positas sunt fundametum inuetionis ad tempo có fiderationis: fine profitu ere cuiuscuca fine preteriti fine futuri motus. Radice igif motus quáctio: fi volueris: fine radice Scoi mobilis: boc est Zugiu 2 stellarum firaz: fine Trepidationis vel Accessus 2 recessus. Ité Solis 2 Lune: Lapitis Dzaconis. Item ras dicem Argumetoz Lune Cleneris 2 Dercurii. Item radice motus Dartis Iouis et Saturni 2c. Radice item Előgationis Lune a Sole: fine Arguméti latitudinis Lune: oneredo eas in tabula radicii:nifi prorfus ebes fis ingenio:inferiptio tibi radicem quaz enpis & comodifime in sua tabella ostedet: Accirco bie no occupemur exemplo.

Propofitio nona.

E tabulis Dediop motusi quosicis oispositione earus cognita: me dium motus queliber: boc est puncts medius excessus velocissim; motus super tardissimi centri cosposis celestis in Zodiaco: ad quodcis tempus vati sue eram vati: ad quecis meridianum invenire. Ta so. 4 2 bularum mediop motus: quop tredecim in bis tabulis locis sus post ti inveniens: [C. Secudi mobilis: boc est Augus s stellarum sixap: Tre pidationis boc est Accessus s recessus sideree spbere. Item mediu mo

tum Solis qui semper est ? Ucneris ? Mercurij. Et medium motum Lune: ? Lapitus viaconis. Item medio pargumento p Lune Ueneris et Mercurij. Medio p motuum Martis Jonis ? Saturni. Ultimo tabula Elongatio is Lune a Sole: ? tabula argume ti latitudinis Lune. Eap oispositio est cum lineis numeri: que quartis tertis stois ? prismis sum teomunes ere cui scuig. Quibus edirecto mutatis oenominationibus moto in signis gin i i et i correspondent eis ascripti: prout ppositio becinserius exponet: ? tituli infronte ? in pede tabule cui sicios admonent.

Edium igit motum si velis innenire. Et est possitiogeneralis. Reduc totum si si per cipies a pricipio alicuius ere tibinote viga ad vie ossiderationis tue: sine ad the possiti ad i i vet per pmā bui. Silr reduc botas vininuta botav ad minta vie olevis babueris botas vininta botav vitra vie ossideratiois tue: sine tep? possiti per quartā: Equatione tame vieru prins ab ipsis subtracta per modū vit voces so possiti per quartā: Equatione tame vieru prins ab ipsis subtracta per modū vit voces so in tabula equionus. Et si sote loco babitationis sue cosseratiois erigente ad alium meridiani sp. Loleti velis inquirere motus: necesse est vitepus vistātie meridiani locum tue considerationis sue babitatione valoum interiacens addas tepozi possito ad qo vis reperire mot? subbitatio illa tua sueru occideratios Loleto. aut subtrabe si vie talioz sueru Loleto. verens qo post additione vel subtractione promenerit: est illud cum quo operaberis: equatio tamen vierū supravt prins semp subtracta. Quo sacto scribe primo radice illius motus acceptu per. 8. bauss. s. precedete ad tepus illius ere per que

operaris. Dactif fingulis mediozu moturi tabulis in capite ad era epi comoditatis gratia medij affignată cospicies. Qua radice scripta extra ad parte: igredere in tabulă illius medijmo moto tue que querie cum numero quartoz: 2 go inenerie in quarta linea post lineas numeri. s. ① Let in linea que ititulatur 4 illud funt figna: in fequeti gradus: postea minuta cé per ordiné 2 58 fractionu. Scribe igitur ea extra sub radice pains scripta: quodlibet sub suo genere. Dein D. 60 de itra cum numero tertioz in eades tabulam 2 go ineneria in linea que ititulatur 🖫 🕮 3.72 figna: 7 in fequeti gradus 75 per ozdinez. Scribe igitur ea lub alis pzius fcriptis quodli-72.77 bet sub suo genere. Dostea itra cum secudio: 2 quod invenerio in linea que ititulatur 2. 5.81 funt fiana zc.per ozdinem. Scribe ea iterum extra fub alife: vt pzedictum est. Deide itra cum primis, a quod ineneris in prorima linea funt figna ac, per ordinem. Scribe ea ite rum extra sub alijs moze iam victo. Quo facto fi babes minuta vierum: itra cuz eis ipsa eandem tabulam. z quod inueneris in proxima linea post lineam numeri sunt gradus. z postea minuta zc. per ozdinem. Scribe iterum ea extra sub alis. Deide intra cum secur dis vierum fi babes i in eadem tabula, a quod inenia in provima linea lunt minuta 'ac. per ordinem. Scribe iterum ea sub alijs prins scriptis. Et sic faceres si baberes plures fractiones tempozis. Que autem venominatio fignozum z graduum zc. quartis vel tertijs 78. correspondeat: patet per titulum superioze in fronte tabule. Que vero fractio gra duum correspondeat cuilibet fractioni temporum patet per titulum inseriorem in pede tabule, Quo facto adde omnia adinnicem incipiendo a subtiliozi fractione. Et quotiensci co ex additione excreuerint. 60, ponenda est pro eis vnitas in loco fractionis imediate grofficus. Et ifte modus eft feruandus in iftis tabulis vice ad figna: quia 60, gradus va lent bic virum fignum: vt fupza pictum eft. t fer figna facunt revolutione vnam Et ideo fi er additione fignozus adjuicem excrescant plura figna ci fer: subtrabe ide. 6. quotiens poteris: 7 refiduum ferua. 7 illud quod pronenit: est illud qo queris pe medio moru: 7 est propositus. (Duius rei bocaccipe exemplum: Utad tempus propositum Ere Christi. 149 2. currente Die. 20. Junij. Doza. 14 m. 36 volo inentre medium moti Solis. Re duri illud tempus ad 4 3 2 et i per primam buius. zeft 4.2.3.31.2.19.1.19. Bed quia bozas a minuta vitra viem cosiderations: videlicet bor. 1 4 minuta. 3 6. equative Dierum que in proposito estass. 14. 2. 26. ab eis subtracta erunt bore. 14. m. 21. 2. 24. Quas in minuta vierum ? 2 2c.converto per quartas buius. ? erut. fi. 25, 2, 5 3, 3, 30, Que scribo ad parté. Deide groperor per annos Christi: accipio mdice Solie icarnatio nis per. 8 quam scribo: vest. 5.4. 3.28. m. 21. 2. 0. 3. 20. 4. 28. Deinde in tabula medij fo. 5 8 motus Solis cu quartis. 2. lub quartis inenio motu eis correspodete edirecto, f. 8. 1 6 g. 39.11.14.2.38.3.27.4.52. Que scripta sub radice igredioz eodem modo cuz tertifs. s. 31. sub tertije in eop Directo inenio. \$. 33. \$. 18. ff. 8. 2. 16. 3. 56. 4. 11. Que fili scripta fub radice: peinde cu fecundis. 1 9.1 virecto con subsecudis inenio. 5. 1 8. g. 4 3. m. 3 8. 7. 12.3.49.4.5. Que scripta vitimo cuzomis in orrecto eoz sub omis innenio.6.0.8.18. m.43.2.38.3.12.4.49. Quefile scribo extra subalije 22. Que fingula addita ad inuicem funt.8.1. 3.1 8. m. 5.2.44.3.56.4.25. Et eft medius motus Solis ad tempus Ere poofite ad meridiany Loleti. (Sed flostaffis velles bunc mediu motum Solis ban buiffe ad aliu meridianu: ytputa Muremberge: Clide viftantia logitudinis inter Mure berga ? Tolety. ? est boza. 1. sir. 24. Quam qz nuremberga est ozientalioz Toleto: sub trabe ab boxis 2 minutis tue ere. (c3 boxe. 1 4.m. 3 6. Deinde a refiduo. (c3 boxis. 1 3.min nutis. 12. subtracta equatione vierum vt supra residuum est bor. 2. m. 57. 2.24. Lum quo refiduo.ipso in minuta vierus 2 2 per cirtà reducto operare: 2est videls 3.2.3.31. 2.19.1.19.1.32.2.23.3.30.26. Dic volo te no later: o potesi precipio cuusliba

anni arere o ès medios motus: 2 media argumeta Lune Cleneris 2 Mercurii: 2 illa po nere in una cedula: 2 tenere p radice, une no op3 te intrare per totum illu annu nufi cum. Sedis 2 pmis Minuis 2 2 piep: 2 c. fi forte babes. fi. 2 2 viep 2 c. fi crittibi alkeviatio

magna operis vč. Deum corrigedi tabulas motuti equalium z ipfas faciendi pe nono pum ta men babeant mous cuiuflibet viei ubingere. C Scias motu vnius viei il lius cuius tabulă volueris corigere: 2 est motus cuiuflibet vici go scriptus est in oma linea tabule. si in parte superion, cum ergo pubitas pealig linea in tabula veru fit ba (cripta: videbis linea imediate bcedente illa: De cuius veritate tu pubitas et illa scribe extra: quo facto scribe motă vnius viei: st primă linea; tabule: a adde fimul: tunc illud ad provenerit eru nuerus linee de qua dubitas. Et fi dicas quid facia de peri tate ome linee si oubité de ea. Accupe linea quaction in tabula, e scribe easextra: e postea accipe lineà precedente imediate:? scribe sub ea prius scripta:et subtrabe ea a superiozi a facta subtractione remanchit motus vnius viei sca tabule linea oma. Si igif cocoadat bene est. si vero no ocordat accipe iterum in alia pte lineas quas imediatas. 2 subtrabe vna ab alia z vide ocozdatione conec fueris certificatus ce motu ciei:qz non est verifie mile co tabula in pluribus locis fit falfa. 2 cum certificatus fueris poteris per motu victum tota tabula corrigere potes etia totar tabula facere a encipio fitota effet falfa boc modo: scribe motum ome viei: 2 eŭ oupla: 2 ouplatus est motus ouoz vierum. Et super illum adbuc adde motu vnius viei: zproneniet motus triŭ vierum ziteru super illu ad de motu vnius viei: 2 proueniet motus quatuor vierum. 2 fic fac vonec compleas .60. lineas: 2 erit completa tota tabula.

Propofitio occima.

10

Etabulis Equation i cognita ear î oi spositione: 2 generali eop modo introttus: equation es boc est centralia puncta pro veris motibus elicien dis 2 c. extrabere. (Disposition e itaq; tabular î equation un lineis nüeri coib signis 2 gradib cetro 22 argumeio 2 i serui etib pmo ordine nüe

roz positis similes esse fere in singulis cernimo. Signa aut partum in supiozi parte: boc eft in fronte supra pma linearu longitudinaliu: que est graduu: que vescendit augme tando ponunt: Partimos in inferiozi parte: boceft in pede supra scoam linearii logitudi naliu: que filr est graduu: 2 que ascedit augmentado inueniunt posta. In ceteris vo 02 48 dinibus numeroz: vi videri pot in titulis iurta erigentiam visimilis est eoz vispositio. Et yt pticularius rem intelligamus: in tabula ecitionu octave sphere tres solum tabelle cum totide lineis numeri funt descripte. Eguones n. correspodentes edirecto tin ad or tam funt circuli:boc est fignu vnu z vimidiu phificu. Labelle tri ille z equationes fignis oibus fer phificis accomodent:vt ve numero fignozu ibi apparentiu apparet. In fupe riozieniz pte supra lineas numeri signa nuero. 0.1.3.4. ponunt. In inseriozi vero parte figna pescripta numero. 1.2.4.5 inneniunf. Sub abus pescedendo vel ascedendo edirecto graduu linean nueri eqtioes cu vifferetijs fuis corridetib ponenf: pt ad fenfum in tabellis apps. In tabula at ecition & Solis Lune a plaetar fer ponunt tabelle ptiales: 50 d in vna medietate zodiaci funt ertefe: brites fingle lineas binas logitudiales gdui cu fignis. 7 in fronte fupza omá lineaz longitudinaliú numero aut. o. aut. 1. 3. aut. 4. 7 in pede supra seccidas linearii longitudinalius numero aut. 3. aut. 4. aut. 5. Et ex opposito gra duum equationes semp scribunt. In Sole Argumenti tin. In Luna vo z planetis co

No Centri: Dinuta proportionalia. In I una iter Divertitae viametri. In reliquis lon giudines y longioses y propioses y Equatio argumenti positi innementur. Differentie item equationii: que non aliud funt nifi excessus maioris equationis ad minore sunte lineas inscribuntur. Lirca bas equationes tam supra of infractivali Adde vel Monne inscribantur. Et circa pri las 21 additione belignans; vel 20 minutione benotana infra ant funza from co contienit pofiti intuentur. (Animaduertedu tamen bic: co quado in tabulia conationi occurrit paragraphus: tunc ibi in offeretia tam in funion & in me fer ioni margine ponunt oue lie vel A 2 10 vel 10 2 A fic o vna pofita eft fuma alias. Quarti superioz vel exterioz respicit egitiones 2 differetuas que sunt supra paragraphi. Et unier los filir vel interios respicat equationes e prias que sant sab paragrapho in vero az margine. Et bec est dispositio tabularii equationuz generalis. (Dodus aux gene ralie introitue in tabulae equationu est cu signie ? gradibue contri vel argumenti inne tre ve propositio propria inferius provimo loco suo pocet. Si ergo in quacumor tabula Ramum cum quo intras repertum fit in margine vel spacio superioxitune gradus cum quo intras accipiuntur in oma linear longitudurali in pelcedendo, e er pirecto ciuldem gradus versus pertru si suerit centrus equatio cetri: eminuta ppostionalia. Si vo suerit aranmentii: equatio aranmetti 2 Dinerfitas Diametri: vel alio longitudinti accipiumf. dia constiones cum titulis Adde vel Munue fibi fupzapofitis extra scribe ad parte. Deide mifferentie accipies: fi vitra gradus babueris minuta vic. que imediate (cribuur in linea prorimo segueti edirecto. Et consideres l'a scripta supra pisserentia in superiori margine. Et eadem luttera fi fuerit A fignificat o pare proportionalis ex ouctura innéta fit adv denda equationi accepte. Si vo fuerit 20 ficto pare proportionalis fit subtrabeda ab eğtiőe. Si át fignű cuz quo intraf fit in margine vel in spacio inferiozi: túc gradus figni accivintur in scoa linear logitudinalin ascededo. 2 ner er virecto einsde gradus per sus pertrum accipit equatio centri vel argumenti 25. VI lupas. que scrib tur fili extra ad pte ona cii titulo Adde vi Monue fibi fupzapofita. Deide accipit fi vitra grad' fuerit miuta ez offeretia aimediate sequit in linea ascedendo a conderat luttera scripta sub offeren tia in margine inferiori. que l'a scribif erra circa differentia. Et eade littera fi fuerit A fia nificat o pare proportionalis ex operura inventa fit addenda equationi accepte. Si fuerit 11) fignificat op fit minueda. Er viroca istoz modozus pzouenit equatio egita fine pera. Que additur vel subtrabitur a medio motu pront inferins in tribus propositionibus precipitur.

Propofitio vndecima.

11

Acturam auté vel modă oucendi vnă numer în alium pro parte po portionali inuccienda fubiungere. D Animaduertendu: o arcus ois quo mediate alius arcus inuccitur: vtplurimă Lentrus vel Argume

tum nominatur: 2 tiñ figna 2 gradus cotinet. Et illud qo mediatibus illis arcubus unue nitur in tabulis: comuni nomine appellari potest Equatio. Lum ergo babueris aliquem arcum cum quo erit itradum ad tabulas ad accipiedum equatioem 20.2 in eo suerit yltra figna 2 gradus miuta 2 2 2 cetere fractioes. Si fractioes illeno suerit viuersarum venomiationus: accipiatur ipsemet fractioes yt iacet. Sed si fractioes iste suerit viuersarum venomiatioum: reducere opoztet eas ad venomiatioem miozis fractiois 2 eius des venomiatiois. 2 vocêtur pzimus numerus. Similiter si vissertie accepte fractioes non suerit viuersarum venomiationus: accipiatur ipsemet fractioes pzout iacet. Si vero sia

ctiones ille fuerint diverfarus denominationus: opostet etiam eas reducere ad benomin nationem minozia fractionia reiufdez venominationia: vocetur fecundus numerus Tune multiplica bune fecundu numerum per primuz: 2 illud quod ex tali multiplication ne pitenerit; est pare proportionalis questa. Quam nota cum eius venominative: quo niam tale poluctum penominatur a numero refultate er additioe numeri penominatus fractiones priminumeri: cum numero denominate fractiones secundi numeri: Cit ver bi gratia: Si numerus venominas fractiones pami numeri fuerit numerus binario: eo optales fractioes fuerant ? aper fimile numerus venominans fractiones fecudi nume ri fuerit etiam numerus binarius.tunc numerus pductus ex multiplicatioe primi nume ri per secundu erit 4. quoniagaggregando ouo cum ouobus que venominant fractioes primi z fecudi numeri: puenunt. 4. Et fi vnus ouozu venominatozu fuerit binarius nu mer?: zalt vnitas: pductu erit 3. Et fiambo fuerit vnitas: pductu erit 1. Et fi vnº fue rit binario: ralter ternario: pductu erit data. Tic ve alis. Et fi ilta pe prosticalis fit mi mus. 60. ipfam accipe vt iacet. Si vero fuerit. 60. vel plus: reduc totus ad groffiozes fra ctiones tibi possibiles: puidedo per. 60. Exempli gratia: Colo sumere partem poottio nalem De. 20. scom postionem De. 60. ad. 12. bocest Dicere: Debeo reperire vnum nu merits qui se babeat in eades pportioe ad. 20. in qua se babeat. 1 2. ad. 60. Erit itacs. 60. primus. 12. secudus tertius autes. 20. multiplico. 20. m. 12. 7 sunt. 240. que vinido per 60,2 puenunt.4. Est igitur. 4 pars prottionalis De. 20. ficut. 12. De. 60. quia virobia quinta pars. Similiter in omnibus alus ages. (Er tabulis aut in quibus orie feri pte non apparent cu titulis: yt fit pter in equationu tabulis: ceteris fere omnibus: vifferentia ipla boc modo extrabit. Intra primo cu numero fignozu z graduu: querendo in lineis numeri numez confimilem. z equatione qua invenies in oirecto existente scribe ertra ad partem. Doftea do fi babueris aliquas fractiões in arcu cum quo intrafti ous pltra figna z gradus:tunc cum vno gradu addito ad arcú cum quo prius intrafti iterus intra cu tali arcu accipiendo iteru equatione in directo existente sicut prius. Et tunc mi nozem equatione a maiozi subtrabe. z illud qo remanet est vifferetia. De qua fi partem ppozitionalem acceperis yt supra.eam adde equationi ime: fi suerit minoz equatione se cunda, vi subtrabe ea a prima equatione: si fuerit maior of scoa. 2 quod post subtractio nem vel additione puenerit: est equatio pcifa, (Item fi un arcu aliquo intrando babueris. 3.0. \$.0. fed fractiones tatum, tunc istas fractiones per equationem acceptam in pirecto vinus gradus: 2 nibil in fignis virilos ad idem genus pains reductis multiplica. 2 peide paucto piniso per. 60. vt picitur: babebitur equatio correspodens illis fractioi bus fed fi in arcu tuo babueris 8.5. 3.5 9.2 vltra boc fractiões: istas fractiones reductas ad ide genus:p egitione acceptă i oirecto. 8.0. g. 1. Vl. 8.5. g. g. et ad ide gen?reductă mi tiplica: 2 pductu oiuide p. 60.2 proueniet pars proportionalis illis fractionibus correspondens quá minues ab equatione in virecto De . S.O. a. 1. vel. S. s. a. 59 . 7 residuux est equatio questra ad illum arcum correspondens: que veinde ab equatione existente in Directo. 8.0. 8.1. feu. 8.5. 8.59. fubtrabat. verit egtio tui poofiti. Dost bac parte p pozionali ineta addim'eam vel subtrabimus ab equatione prout littera 21 vel 213 iurta scripta admonet: tunc resultabit equatio equata ? pera. (Sed ad multipli) cem labozem multiplicationis e pinifionis buinfinodi vt fupza enitandam: que multo tiens in buinfmodi equationibus tam planetarus que clipfium euenire folet: copofita est tabula pportionalis: 2 bis tabulis iferta. Que tabula numero feragenario ta; in margis ne superiozi transuersaliter: a latere descendedo extenditur. Luius vius talis est. Que re ynum numeroză de quo partez proportionale vis babere feciduz prozione ad. 60.

Res differentias in capite tabule e alterus. Larcus fractionentin latere tabule einste e al inueneria in angulo comunuerit pportio quefita:ea coditione: venumera anguli in fia colo Dertro cotentus est utuns provitionis qua ocnominatores fimul incluye funza iax Biri constituunt seu producit: 2 numerus in spaciolo tinustro erit prie minutie maior. Bi antem in alterutro fuerint vinerse fractiones:cu qualibet vimfim cu reliquo itres. 2 ad inenies aggreges: quodlibet. f.ad flum genus. Si autes in viroce fint pinerfe fra. ctiones:cum qualibet vnius: 2 cii qualibet akeruis feotium intres. 2 fac ve prius. 2 refultat tune seom venominationem propositum. Exempli Tabella venominatios

gratia: Clolo ex tabula proportionia partem pportionalem fumere cum arcu minutis, 24. fectidis, 36. 26.00.60.ad DIF ferentiam ifi. 2. 2.24 Quero omo minita offerentie (cs. 2. in margine superiozi in linea transversali: z minuta que babut in arcu vitra gradus fcs. 2 4. in linea a latere versus fini. firam. zinuenio in angulo comuni numerum: qui est.m.o. 2.48. Deinde iterum auero minuta illa. 2. in superiori mar aine: 2 i arcus fes. 26. in latere. 2 in angulo comuni unuemo numerum: qui est. 1.2.12.3. Demuz fimiliter quero 2.24. Differentie in Superiozi margine: 2.11.2 4.arcus in latere.et numerus in angulo comuni eft 2.9.3.36 Deinde iterus illa. 2.24. anero in Superiozi margine ve pzius: 2 2.36. in late re. 2 innenio in angulo comuni numerum: qui eft. 3.14 4. 24. Que ficollocentur quodlibet sub suo genere: 2 Deinde fi mul addentur: erit pare proportionalie inventa iftud, fcj. fi. 0.2.54.3.2.4.24. Quam adde vel subtrabe ab equation ne: ve viciem in propositionibus. Le sic ve fingulis zc.

(Item notadum: o pars proportionalis intelligitur acciv pienda quandoction in propositione aliqua picatur: si opus est: fine precipiatur intrandum cum ouplici introitu. Deno minationes autem 7 variationes fractionus in ouctura per tabulam proportionum in tabella bic apposita patebunt li anidiffime.

HARI PACTIONARY.			
Nume Ducendus	rue. Ductue.		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	onum. rus. Ductus. 5. g. g. m. m. 2. 3.		
m. p m. m p ï. m p ï. m. p ¾.	m. ž. ž. ž. š. 4. 4. s.		
ī. p ī. ī. p ī. ī. p ī.	3. 4. 4. 5°.		
ī. p ī. ī. p ā.	54. 64. 64. 74. 74. 84.		
4. p 4.	74. 84.		

Propositio duodecima.



Otum Alugis comunister qua aux opzia Solis v 21Dercurii 21Dars tis Jouis ? Saturni elicitur: er tabulis adboc factis inuenire. (Sciendi o ad babedum motus augii tabulis ouabus indige) mus. (cztabula augui z stellarum firap: que est tabula motus conti nui. e tabula medii motus accessus e recessus: om motus ille er ou . plici motu componif. sc3 motu cotunto: 2 motu accessus 2 recessus. Et of Aux comunis: quonta cu3 cuiullibet Planete auge coicat: ve

inferus patebit: umifr e cum ftelles firis. C Lum igif augecomme adaliqua erait in menire volueris: pmo eram confitme per pma. Scoo medium motus augiu t stellaru fig. parum illius ere non accepta radice inuenias: per. 9.2 nota ad parté. L'ertio radice accef: fus e receffus octane fpbere per. 8. accipe qua etta fcribe ettra. Deinde cii era quere me dui motii accellus v recellus octane lobere que aggrega cu radice v pue un mete?

octaue sphere. Quarto cũ signis a gradibus que in medio motu octaue sphere babes in tabulă equonă eiusdem octaue sphere intrabis. zequatione pro signis a gradibus acci so. 43. pe. quă nota extra. a scribe circa eam Adde vel Minue: vt in titulis suis videbis. Quin to si opus est disferentiă equationis accipe. a circa ea scribe A vel Mi vt in titulis circa equatione videbis. Sexto parte proationale iurta modă in canone vel prositione precedenti dictă inquire ducendo disferentiă în residus numeri. Quaz pte proportional lem adde vel subtrabe iurta admonitione litterapcirca eam: ab equatione prius accepta. 2 exbibit equatio esta vel vera. Ultimo eande equatione equatam sue vera adde vel subtrabe a motu augium a stellarum sixarum prius accepto put titulus docebit. 2 qo post additione vel subtractione prouenerit Aux comunis vocabif. Et est prosituz.

Propositio tertiadecima.

13



Era loca stellarum siran ad quodeug pe volucris per tabulas tă so.43. in logitudine quă în latitudine inuenire: 7 magnitudine earum cognoscere. Thota of stelle sire quarus loca per Astronomos attedunt sunt. 1022. Que stelle ponunt in. 48. imaginibus celi que su gna seu sigure seu costellatioes vocătur. Daz igit. 1022. stella rum ad aliquă eram si volucris inuenire loca: neceste est vt scias pona loca eaz veriscata ad aliquă tos tibi notum. Et suerunt loca eaz

pltimo verificata per Alfonsum Anno Christi. 1251. meses. 5. Si itag loca earugad quodein tempus aliud verificare volueris:p(cribe omo augem comune ad temp' ere Alfonfi:ad quanunc ftellas bic babes verificatas. Etipla eft Signuz.o. gradus. 17.mi nuta. 15.2.34 Dost repiesaugem comune ad tepus aliud:ad go ip as verificare ver lis. zab ea subtrabe augem comune prescriptă z bocst tempusad go stellas verificare vis fuerit post annu. 1251. menses. 5. Cel subtrabe ab ipsa auge prescripta: si tepus tale precesserit annum oni. 12 5 1 . men. 5.2 00 post subtractione manet erit motus stella rum fixaru in tempoze go eft inter annuz Lbzift. 1251, meñ. 5.2 ipfum annu feu eram ad qua cas stellas verificare volueris. Duncigit motum adde ad locu cuiuslibet stelle fo.43. positum in tabulis istis si tepus tue verificationis segtur annum ere Alfonsi, vel ipsum subtrabe a loco cumflibet stelle in his tabulis posto: fi tos tue conderationis ocesserit. 2 boc intellige de locis earu in logitudine. 2 babebis ipfaruz loca in longitudine verificata ad tepus ad qo volebas. (Si aute vera loca fellarii ve fupza aliter z per eram Alfonfi invenire velis: Subtrabe eram Alfonfi ab era tue ofiderationis. z cum eo go poft fub tractione reliquuerit operare: ficut egifti in medijo motibuo: Ut fique ibi fuerint grte: ingredere tabula medi motus Augium z stellaru fixaru non accepta radice. Sin tertie: cum tertijs. z fic de relignis. z go prouenit fingulis fimul additis: ferua ad partez. Do. fea in tabella radicus motus octave sphereaccipe radice Alfonsi: zeam scribe extra et accipe illud etiam qo ifcribitur flatim in prima linea fequeti post radice illam. segua tionem in directo inscriptionis Eins motus est: que est equatio que fut tunc tempozis. Quam equatione ferua. Qua fic feruata: ad eram a tepoze Alfonfi vica ad tempus tue ofiderationis quere medium motu accessus z recessus zc.per. 9. quemadde cum radice Alfonsi pus servata. 2 cum illo qo puenit in signis 2 gradibus; intra tabula equationus motus accessus recessus: quere equationes: ficut pictus fuit in. 12. sc3 propositioe mo tus augium zč. Qua babita subtrabe eqtione qua seruasti. sez illam que tempoze Alson fi fuit: ab equatione nunc inuenta. z illud qo remanettest offerentia interegitiones que

fuit tempoze Alfonfi: a Illam que fuit tempoze ofiderationis tue. Quam vifferentiam ad de ad moru Augium a stellaru firaru pus servata a quod post additione provenerit ad de loco cuius libet stelle fixe tépoze Alfonsi. 2 00 provenerit erit locus eius bora 2 tépo re ofiderationis tue. Et babes profity. (Badus vero 2 minuta latitudinis stellaru no mutabis. Latitudines n earu invariate manet nifi qo minime fenfibilitatis ofequentur trepidationis motu. Parté latitudinis cognosces per titulus sui septetrionalé qui est lit rera. S. aut meridionale qui est lia. 20. Magnitudinem aute itelliges per nueros in vitima linea versus pertra positos. Distincte nãos sunt stelle de abus osideratio potuit esse in ser ordines. Quarti pme sunt masores: veide pauco minores: 7 post iterti muno res.fic vlos ad lextam ordinatione. Clbi igitur invenies in cadem linea. 1. fignificat o talis stella est de pma magnitudine. vbi vo. 2. de scoa, vbi aut. 3. erit de tertia. 2 sic confequenter. Ereplum per tametipfum fi non penutus ebes es faciliter potes oftituere ve.



Dropofitio quartadecima:

Ugem propriam Solis qua eius argumētum invenitur: Augemos p priam Mercurii Martis Jouis & Saturni: qua nos eorum cetra co gnoscimus: perqua sacile invenire. (L'Unde si babere volueris augem propriam cuiuscungs Planete: augem istam comunem per precedentem inuentam ad augem Planete qua inuenies in partus tabellis auainm in tabula l'adicum adde: a aux propria illius Planete babebitur.

Propofitio quintadecima.



Raumeta media z centra media omniu Planetarum: quibus equatio nes ze.in tabulis equation u cognoscent invenire. (Ad babedum pri mo argumetus Solis: subtrabe augem ppzia eius a suo medio motu. 2 productű erit argumentű Solis. (Ad babedum centrű mediű Lune:medium moui Solis tue ere subtrabe a medio motu Lune eiusde ere a go remanet post subtractione oupla. a boc ouplatu erit centrum medium Lune. C Lentru Cleneris semp eft argumetum Solis. C Lentrum medium

in Mercurio Marte Joue 2 Saturno fi vie babere: fubtrabe augem.cuiufuis iftox a 161 fuo medio motu. 2 pductu erit centru mediu ei? DArgumeta media Cleneria 22Der 2 65 curijatos Lune sumuntur cu proprije tabulis per modu illum quo victu est in ppositio 3 69 ne. 9. De medijs motibus inueniendis. C Ad babendu aute argumentu medium cuius nistrium superioui: videlicet 20 artis Jouis ? Saturni: mediu motu einsdem planete ere proposite subtrabe a medio motu Solis ere eiusdem. 2 pductu erit argumentu me dum talis planete. Doc qui facile est intellectu supersedemus exemplis.

Diopositio sertadecima.



Erum motum Solis per tabulas invenire. [] Inveniatur pmo ad eram ppofica medius motus Solis per. 9.2 iplum fcribendo ad p tem ferua. Secudo fcias argumetú cius per. 1 5. Tertio cu argume to illo intra tabulam equation Solis. 2 equatione in virecto exi stentem cum sua differentia accipies: circa ea scribendo titulos Adde yel Minue prout tabula admonet. Quarto partem

proportionalem inquire fi opus est per, 1 1. Demum parte proportionali inventa:eas ad de vel subtrabe ab equatione argumenti unta titulozum befignationem. z quod post anamentii vel viminutione provenerit:est equatio Solis equata a vera. Quinto a vltimo eandé equationé juxta tituloz. (cz Adde vel Minue circa equationé conferiptozus penotatione: adde vel subtrabe a medio motu superius invento z servato, z go post an amentum vel orminutione provenerit: erit verus locus Solis ad eram profitam in sodiaco.

Depositio pecimaseptima.

fuis lfis & vel 20 annotado accipies z vnuquodos per le seoslum scribe. Clide etiam

17



Eruz loci Lune per tabulas innenire. T Inneniatur pmo ad era proposità medius motus Lune per. 9.2 centrum Lune per. 15.et araumentú eius mediú per cande. 7 scribe vnúquodos per se seoz/ fum: 2 ferua ad parte. Scoo cum centro Lune medio tabula equa. tionii Lune ungredere: 2 eius simile in lineis numeri quere, 2 accipe gò in eius directo inveneris de equatione centri.et circa ipsam: ti suloz penotatione: videlicet Adde vel Dinue scripta confidera. fimili differentia cum

ibidé. scz vbi intrasti cum centro Lune minuta proportionalia que sunt in pirecto: 2 15a ferna vna cu eoz oifferentia zluteram tutuloz, f. 21 vel 20. Tertio fi aliquid vtrozum or istor in differentia inneneris: queres parté proportionale: 2 fac erinde 2 equatione cen tri e minuta proportionalia equata vel pera per. 11. Si aut non erit in vifferetia alidd in bis: tune quicod accepts invenerie vi iacet scribe extra: ? ferua ad parte cu suis li is tiv tuli. Quarto eadem equationem centri iam equata iurta erigetia tituli adde vel subtra be a medio argumento Lune. z erit argumentu equatum fine vez. Quinto cu argumen to illo egto intra easde tabulas equationi: 7 eius simile in lineis numeri quere: 7 accipe 90 in eius virecto invenerio de viverfitate viametri circuli brevis: 7 fi opus est cum sua Differentia 2 litterarum titulis. 2 partem proportionalem per 11 ingentam iurta lit terarum defignationem adde vel munue.cterit dincrittas vera fine equata diame. tri. De qua pinerfitate piametri innenta: 7 per minuta proportionalia prins ad partem fernata: partem iterii proportionale inquire per, 1 1. ponendo videlicet minuta proportionalia inferiue: 2 divertitate diametri superius. 2 provenit pars proxionalis qua ferua itez ad partem. Serto cfi codem argumento vo in cadem tabula equationú Lune in directo existente accipe equatione argumenti cii eino differentia si opuo est circa que scribe titulozum notă. s. Adde vel Minue: put tabella te pocebit Deide pte ppozioali Ropus erat innenta per. 1 1. pronenit egitioargumeti egta fine va. que egtio prio erami nata appellaf. Septimo buic equationi pmo examinate: vinerfitatio viametri parte pro portionale iam superius servată adde: 2 pronenit edito argumeti que equatio secundo examinata appellatur. (Dicno pigriter notade funt cautele tres Dama: of ficum cen tro Lune invenera in minutia proxionalibus.in.o. 2.0. tune no est opus querere par tem pportionale.nece est necesse ve diversitas diametri indratur. Na tunc equatio pri mo eraminata erit equatio fecudo eraminata. Scoa: babitis minutis proportionalib?: T feruationad partem: fi Demű chargumento vero invenerio in Diverfitate Diametri g.o.

a differentia. O. túc minuta proportionalia nullum operis erunt. neco necessariu est grere partem postionale cum viterfitate viametri, sed equatio pmo examinata erit iturum equatio (coo eraminata, Tertia: o fi contigerit. 60. in minutis proportionalibus, pueni re: 2.0.in differentia.tunc iteru non est necessariu per minuta ppositionalia querere pte

Propositio pecimaoctana.

18

Eqtio **Q 66 Q 70 74** Eruz locă Cleneris a Mercurițac Martis Jouis a Saturni per tabulas innenire. C Inneniatur pmo medius motus cuiufuis pla nete ad eram poofită cuius verum motu vesideras:per. 9. Deinde queratur centru mediuz eius. Similr a eius planete quere argumê tum per. 15. Que singula extra scribe: quodlibet per se ad pte. Se cundo cu centro medio Planete tabulă eius dem planete ingredere:

7 78 querendo fimile in lineis numeri. 2 quod in eius virecto inveneris ve equatione centri 5 82 ertra per se nota cum sua differetia 2c, si opus suerit cum qua partem proportionales in quire per. 1 1. Et eandem partem proportionalem innéram intra titulorum A vel ID fianificatione adde vel lubtrabe ab equatione centri quaz ex tabula cepifti. e erit equatio cerri egta fine vera: Tertio equatione banc eandem centri equată: fi circa ea scriptu fuerit Adde:eam adde cêtro medio:7 subtrabe ea ab arguméto medio. Si vero circa ea scriptų fuerit Minue:ipsam a centro medio subtrabe: 2 adde eam argumento medio.et babebis ytrūgi equatum. (c) centrų z argumentų. Žt ferua equationė banc centri; gt inferius ea indigebis:ad parte cu suo titulo. (cz Adde vel Minue. Quarto cu centro egto eadem tabula equation ingredere fimili querendo fimile in lineis numeri. 7 minuta p pozionalia in directa inuenta extra per se nota cum sua differentia. Se est opus: 2 fac pre pportionale per. 1 1.7 iugta titulor exigentia ea adde vel subtrabe: 7 bebie minuta pro pozionalia egia. e peide scribe ea ad pte: cū titulo. (Longioza supraposito vel ppioza: prout tabula pocet. Quarto cu argumeto equato eodem modo intra eadem tabula que rendo fimile in lineis numeri: quod in pirecto inveneris de dinerfitate diametri circuli bzenis in altera longitudinum cum sua vifferentia fi est opus accipe. Si enim supza mi nuta ppoztionalia supra servata scriptu fuerit Logioza: tunc cape oiversitatem piametri fub longutudine lógiozi. Si aut super ea scriptum fuerit Dzopioza: tunc cape ea sub lon gitudine propiozi. 2 similiter fi opus erit cape sempersuas orias.2 per. 1 1. sac parte ppozzionale: 2 bébis oluerstate olametri egta vt supra Et oluerstate olametri egta in menta cua munutis poortionalibus ad parte fernatis iam supra: oe ea diversitate accide partem proztionale quam ferua ad parte. 2 scribe circa ipsam 200 fi diversitas viame tri accepta est sub logitudine longiozi. Vel scribe circa ipsam A si ipsa accepta est sub lo gitudine ppiozi. Licet solet ab aliquibus pari differentia in Mercurio ppter minuta ppozionalia sua: que variant in logitudine propiozi Sed ista variatio munutoz ppor tionaliii non facit pinerlitate in opere: pilmodo aspiciatur titulus minutoz propoztioa

lium: ytrum fint in longitudine logiozi vel ppiozi. Deinde bancparte proportionalem ferua advarie. Serto iterum cuargumento equato eodem mo in cadem tabula ecitionu in pirecto existente accipe equatione argumen cum sua pifferencia. si est opus. Deinde parte proportionali per. 1 1. accepta: ipsam fac equatam vel veram: 2 exibit equatio argumenti, que vocabitur vi in Luna equatio argumenti primo eraminata. Septimo equationi buic, scilicet primo examinate ofuersitatis ofametri partem proportionalem superins servatam: si circa eam littera A invenitur adde, vel ab ea subtrabe: si circa cam lia D invenitur. 2 00 post additione vel subtractione provenit erit equatio ar gumenti que of fimili equatio argumenti scoo eraminata circa qua titulu Adde vel Minue: vr in tabula vides nota z ipíam scribe ad partem. Octavo egitiones vtrasos. s. equationem cêtri superius servată ad pte cum suo titulo: 2 equatione argumenti istam scoo examinată cum suo titulo condera. Et fi circa ptrasog scriptum est Adde: adde eas fimul: 2 totum addas medio motui planete. Et fi super virason scribat Dinue: tūc iūge eas fimul: z totu minue a medio motu planete. Et fi circa vna scriptu fuerit Adde: z circa aliam Dunue: túc minue minozê a maiozi: z refiduti jurta o titulus Adde vel Mi nue circa majoze equatione (criptus exposcit; adde vi subtrabe a medio motu planete. z gó post augmentú vel ofminutionem puenerit; est verus locus planete in 30diaco. T Notadu e bicin ista poone zin relige qui no curaret magna pre cisione posset isto modo equare: Quia posset videre vtru in centro vel argumeto vltra. \$. z. g. essent aliq minuta, ? fi effent. 30. vel plura qua. 30. poffet pro eis addere vnu gradum cu gradib centri velargumeti. 2 fleffent paucioza qua. 30. Decis no curaret 2 fic cu vno introitu baberet equatione: nec opozteret querere pte ppoztionale. effet opatio fatis pcifa ad sciendu in quo gradu est planeta in zodiaco. Theterea bic valiud generale relige est notadu piligentiffime. Sepius enim tibi occurret in opone: o quotienscuos precipit in ppositione subtrabere tale numez a tali fine oditione: necesse est semp subtrabere: sue ille nuerus a quo fit subtractio sit maioz fine minoz illo qui vebet subtrabi. qui si ille nu merus a quo vebet fieri subtractio fit minoz:addenda sunt ser signa: 2 postea facieda eft subtractio. Sunt.n. ser signa vna circuli revolutio.

Propositio decimanona.

19



Lanetar passiones invenire. (Ex tabula quacum tabulas motus planetarus singulos sequens: passiones planetarus facile cognosces eius oispone precognita. Labular igitur istarus pma est Lune: que tabula latitudinis Lune intitulas. Luius oispositio est: vt incapite e in pede tabule transversaliter signa coia: in latere ouplices luneas numeri graduu oescendetiu e ascedentiu: inservientes signis conti

net:in quo poirecto latitudo Lune ponif. (Preligram auté tabula propertient quatuo poinet tabellas. Quarū pma semper inseruit ortui voccasui: apparitioni voccultatoi il sub planete cuius ibide est inscriptio. Scoa eius virectioni voctorgadationi voctultatoi. Tertia eius vinerso motui in vno vie. Quarta ei latitudini ab ecliptica: omnes vnis lineis nueri accomodens. Quas titulo pinscriptiones explanat. Quap vsus est iste vt ovdine sequitur: passione tarditatis voclocitatis motus Lune: quia sine tabula accipitur primo bic interserta.

Arditatem vel velocitaté Lune inuenire. CLuna nó of nech oirecta nech retro grada: sed cursu velox tarda vel equalis. Cursuautem sit cursu suo velox vel

tarda vel eque: Alpicias argumenti Lune equatu fine verum: o fi ipliam fuerit minus vno figno cu oimidio: vel plus. Quanoz cuz oimidio: erit curlu tarda. Si vero fuerit plus vno figno cu oimidio: e minus quatuoz cu oimidio: erit curlu velor. Si aŭt fuerit pcife vnu fignu cu oimidio: vel precise Quaoz cuz oimidio: erit curlu eque. Dot et boc idezali ter fcire: videlz babito motu Lune vo: gras vez locu eius ad vna oie pl?: 2 (ubtrabz mi noze oe maiozi: 2 numerus remanes fi equabit. g. 13.2. il. 11. eque curlu oicef. Si vo minoz tarda. 2 oe quato minoz: oe tato tardioz erit.

Atitudure Lune per tabulas inuenire. C Latitudine Lune qz per Argumentu latitudinis Lune babetur per vez lo

cum Lapitie ozaconie Lune: Iccirco de ipfie bic pmo ponemus propofitiones.

So Erum locum Lapitie à Loude diaconie Lune invenire. Dedium motum ca pitie Lune inventum per nonam buius ad Eram proposité; subtrabe de signie.

6.2 residuum erit verus locus Lapitie diaconie. Et in gradu opposito erit locus verus

Lande ozaconia Lune in 30 diaco.

Y Eru argini latitudinia Lune inentre: (C'Ulero loco Lune p. 1 3. bui? fuento ab co

de subtrabe vez loci Lapitis ozaconis. Clel ali: Clero loco Lise adde mediti mo tu Lapitis ozaconis. 2 viroge modo babebis Argin latitudinis Lune yez fine equatur. Attendine igif Lune fi velis: Ingredere cu Argumeto latitudis Lune mbula la titudis boc mo. Refolueargumentu latitudis Lune in flana comunia. Et fl in argumento illo fuerit ab vno gradu víge ad fer figna coia: túc intrabia a fupiozi parte cu numero fignoz perfectozii. Et cum g. in linea graduii vescendente y for ad 30.7 in angu lo comuni terminante linea in qua accepifti g. e lineam in qua accepifti numeru figno ram:inuenies Latitudine Lune (cripta per g.m.et. 2. Etfl in Argumento fint plura flana a. d. tunc intrabis ab inferiozumtrando lineam graduus que ascendit ab yno yso ad. 2 a. ? in angulo comuni terminate linea in qua accepifti gradu: ? linea in qua acce pisti nueru fignozu: inuenies latitudine Lune scriptam per g.m.et. i .Et boc semper cus parte proportionali: fi oportet. (Que Latitudo erit septerrionalis ascedens: fi argu mentii equatus latitudinis Lime intelligedo figna phifica fuerit min yno figno cii pimi dio. Eritos septetrionalis vescendens: fi erit plus. 1. figno cum vimidio: 7 minus. 3. Si vero fuerit plus. 3. fignis: 2 minus. 4. cum bimidio: erit meridionalis descedens. Siant fueru plus.4. fignis cum dunidio erit meridionalis ascendens. Si auté argumentu eq eum fuerit Signu. o. fiue. 6. pcule: erit Luna in Capite ozaconis. Et fi fuerit. 3. figna pre rife tuc erit descensus sine lantudine. Tesset tunc precise in Lauda oraconis. Si vo di cum argumentu suerit peise ynius signicu oimidio: tune Luna babebit latitudine se prétrionalem 2 pot tunc appellari Afcenfus 2 Descensus. Ascensus de respectu latitu dinis imediate pcedentis. sed Descentus respectu latitudinis imediate sequeris. Et fl victu argru suerit peise. 4. signopeu oimidio: tue Luna babebit latitudine merklionale, 2 pot uncappellari Alcensus 2 Descensus respectu vinerson modo iam supra victo.

Propositio vigesima.

Lanetaportum roccasum apparitionega aut occultatione sub radija Solia cognoscere. Clenua e Morcurius propter tarditate e veloci tatem sui motus inuolustur cirea Sole: e babent sead Sole cituor mo dia. Na cum sueritargumenti Cleneria e cui ab vno gradu i ciusue in ouo signa e g. 1 7.63 g. 1 3 7.erit i ortu suo vesptino. e videbis post Solia occasum sup borizonte in occidente. e tite etiaz est Sole velocior. Et a ouobus signia e. 1 7. gradib exclusive y signi tria signa integra. (3) g.

i Bo, erit in occasu vesotino: oz tune tardat vadeno ad Sole. cosedure: Sol ater prete rit. Et a tribus fignie in tria figna 2 gradus. 4 3. fc3 3. 2 2 3 erit in ortu matutino: eo co e tardioz Sole. Et a tribus fignis 2.43. gradibus exclusive pfc in. 6. figna integracerit in occasu matutino: velocioz. sole. (Dercurij vo argumentu eqtu cuz fuerit ab vno gradu inclusive vice in signa Duo 2 g. 1 3. (c) g. 1 3 3. tuc oxif vespe. Et a Duobus signis 2.12 gradibus exclusive y for in tria signa. (. g. 180. erit in occasu vesptino. Eta tribus figniserclufiue vice ad. 3. figna 2. g. 48. fc3 ad g. 228. oxif mane. Et a. 3. 5. et. g. 48 erclu fine vice in. 6.8. 163 ad g. 3 60. occidit de mane. Clelocitas aut e tarditas motus eiº con fiderant fleut in Clenere. (Cleneris aut ? Mercurifozima occidentalis apparitio erit cu eoză cumliberargumentum fuerit fere. a. 40. erit vesptinalis. Si vo fuerit. c. figna a 40. sc. 3. 3 40. erit eoz prima orientalis occultatio matutinalis. Et si fuerit sere signa. 2 a.40.163 a. 100. eriteon occultatio vespertinalis. Et cus sucrit sere signa. 3. a.20.163 a 200.erit pma matutinalis eop apparitio (Trium aut superiop planetaru ottum 200. casum ita innenias. Argumentu eon equatum condera. Quod si fuerit ab vno gradu in clustue via in fine triu flanoz: erunt in oztu matutino. Si vero a tribus flanis exclusiue pfc in. 6. figna integra: erunt un occasu vesptino (Lum aut volueris scire orti cuius uis triuz superioz ante Solis oztu mane apparentis: tuc sez quado ptermissus est a So le per g. 20 exiens de subradis Solis inceperit apparere. Condera: cu argumentu eius equatu fuerit prope q.20 erit incipiens appere:eriens zc. De subradiis Solis. Occulta ri auté incipiet atch tegi cum fuerit idem argumentu prope figna. ç. g. 40. [c3 g. 3 40.

Trum Planeta fit apparens aut occulta subradus Solis cognoscere. Motadum or Cleneri 2 Mercurio est oztus 2 occasus mane 2 vespe. Si igitur bac paffione feire cupis: feias locueius bozum buozu cuinfuis equatu: 2 locu So lis, 2 que fit veriusa loci differetia, 2 cui fit: videlicet Solis aut planete. Luius aut locus plus babuerit in gradibus 2 minutis: ipflus est oifferentia. Qua oifferetia nota. Doft ofidera fi fuerit argumentu Cleneris eğtü minus fignis. 2. g. 1 7. fc3 g. 1 3 7. erit Clenus vel in oztu vesptino apparens vel occulta. Intra itagg tabula oztus eius ve 2 69 spertini cu figno in quo fuerit. 2 gradus ibi inuentifi fuerint plures gradibo offerentie 3/73 inter ea 2 Sole:erit occulta, 2 fi fuerint pauciozeo:erit in oztuvesptino appareo pirecta. 3 77 Si aut fuerit argumêtu eius a fignis. 2. g. 1 7. fc3 g. 1 3 7. in figna. 3. fc3 g. 1 80. erit in oc 7/2 8 1 casu vespertino apparena vel occulta in retrogradatioe. Ingredere tabula eius occasus 5 85 veiptini. 2 scias per gradus ibi inuetos 2 minuta: ficut supra vicio est. Et fi fuerit illiº ar gumentum a fignis. 3. fc3 g. 1 80. více in figna. 3. g. 44 fc3 g. 2 2 4. erit aut appares in oz to matutino: aut tecta radije Solie. Intra igif cuz figno in quo fuerit tabella illius oztus matutini. 2 fcias ven fit apparens vel occulta pergradus ibi fcriptos. Si aut ide argumentum fuerit a fignis, 3. g. 44. in figna. 6. fc3 g. 3 60. erit occafu matutino appens vi occulta. Intra et cu figno in quo fuerit tabellam occasus matutini, a per gradus suppo fitos ícias verú tegaf vel videri postit. Si enim gradus ipsius fuerint plures gradibus Differentie inteream ? Solem:no appebit. 2 fi pauciozes fuerint: videbit ?c. (De tribus autem supiozibus fi bas paffiones scire cupis: Losidera vifferetia coz 2 Solis zc. ficut superius sit in inferiozib? 2 ea nota. Que si suerit planete: eritide planeta vel appa rens in occidente: vel occultus sub radijs Solis. Intra igif cu figno in quo fuerit plane ta un tabellă occasus planete pespertini, 2 gradus quos ibi iuencris 2 minuta si fuerint pauciozes gradibus differentie iter planeta a Solem:erit planeta appens in occidente. Si aut fuerit plures gradibus illius differentie:planeta erut tectus radije folgribus. S aut pdicta pria erit Solis:erit planeta appés pel occult'i oziéte. Ingrede igit cu fignis

Propofitio vigefimaprima



Lanetarum velocitates tarditates requalitatem innenire. (Cono tienscung verns motus alice ius planete est maioz suo medio mo tui vicitur suo cursu velor. Et si minozivicitur suo cursu tardas. Et si verus remedius adequantur suo cursu equalis vocatur.

Propositio vigesimasecuda.

22



Lancta virum fit ascendens vel oescèdens in circulo descentiser simi liter epicieli cognoscere. (E Lum fuerit centr planete equatum ab vno gradu in. 6.3. erit descendens in suo circulo ecentrico. Et a. 3. in. 6. ascè dens. Et ille planeta qui suerit propinquior sumitatibus suorum circu lorum: dicitur eleuari super ipsum qui suerit remotiora summinatibus suorum circulorum e cognosces per argumentum e cour simile sicut de

claratum est. econuerso tamen de Luna in epiciclo, que ex quo in supicui parte sui epicicli mouer contra successionem fignop in inferiori pero sudeo in pina medietate sui epicicli ascendit in scoa pero pescadit.

Propositio vigesimatertia.

23



Lanetarii virectiones e retrogradationes aut stationes: boc est sint virectivetrogradifiue stationarii per tabulas iuenire. (Scias centrii equatii e argumentii edium illius planete ve quo volueris boc babere: per. 1 6.2 quodlibet per sescribe. Deinde cui centro edito intra tabella stationis illius planete. 2 statione pma qua in eus virecto infinenias: extra per se nota. 2 boc cum parte propozionali: si

opoxet. Quá minue oc. 6. figilis: e remanchit statio scha, quá scribes sub prima. Deinde si argumentú equatú euisdem planete suerit edje stationi pme in signis e gradibus e mi nutis: erit planeta stationarius statione prima. Se ve incipiat retrogradari. Si vo sueste plus statioè e ma: e minus scha: et retrogradus. Et si suerit equale stationi secuide: erit stationarius statione secuida. Si vo idé argumentú suerit plus statione scha: vi minus para: rit idem planeta oirectus. O do si planeta suerit oirectus: e scire volueris qui ince pit virigi: Lonsidera stargumentú mediú illius planete suerit plus statione scha: vel mi nus prima: vel nibil. Si plus statione secuida: subtrabe statione secuida ve argumento medio. e qo post subtractione remásent: viude per motu argumenti planete in vno ve si potes. e babebis in quotiente vies. Si votali viudi non poterit: quoniam sostan maior erit vius sos in quotiente vies. Si votali viudi non poterit: quoniam sessumenti in vno vie aligu remáserit: multiplica illud per. 60. e resultatú viude per id qó pis e va bebis in quotiente minuta vierú. Et si aliquid ve bac vius souisone remáserit: multiplica illud per. 60. e productum viuide per id qó prima e babebis in quotiente e vierum. Et si adduc ve bac vitima vius ouisone alique remáserit: illud multiplica adduc per. 60. e productum vius vierum. Et si

ctum pjuide per id go pus. 2 babebis in quotiète ; biez 2c. Docergo tepus babitum per bas pinifiones subtrabe a tre quo tun planeta equafti, y remanebit tibi tempoquo tuus planeta virigi incepit. Si aut argumentu fuerit minus fatione oma: subtrabe stationem fecuda de. 6. fignio 2 remanenti adde argumento equato toi planete. 2 toto boc aggregatum pluide vi pictueft. 7 totu tempus babitu per tua piuifione subtrabe vi supza, rremanebit tibi tps quo tuus planeta otrigi incepit. Et si argumentu medius fuerit nibil flationem oma tota piuide modo picto pe z tpe er bac piu:fione refultato fubtra be vt supra: 2 babebis intentu. (Si vero scire volueris guretrogradari incipiet, 2 araumentum medin fuerit plus statione scoa: Subtrabe argumentu medin De. 6. signis. remanenti addas flatione oma. r totum aggregatu vinide modo victo, rtepus er bac Di uifione productă addas ad tepus quo editi tui planetă. 7 resultabit tibi tempus quo tuus planeta retrogradari incipiet. Si aut argumentu mediu fuerit minus statione pai ma: subtrabe ipsum oe statione oma. z residuu viuide modo supra babito, z tempus ba bituer bac vinisione addas vt supra. 2 babebis initiu retrogradationis tui planete. Et st argumenti medium fuerit nibil: tota statione oma viuide modo victo. Ttempua resultatum addas per modu victu. z babebis intentu. Slyo fuerit planeta retrogradus: 2 vo lueris scire quado retrogradari incepit: Statione ems oma oe eius argumento medio minue. 7 eius residuu oinide per modum oictu. 2 tempus resultatu ex bac oinisione sub trabea tépose quo tuu verificasti planeta. 2 tibi remanebit tempus qo queris. (Et fl scire volueris qui oirigi incipiet: Ergumentu eius mediu minue a statione secuda. 2 residuum subtractionis divide per modu dictii. 2 tepus pouciu ex bac divisione addas ad tempus quo thum planeta equafti. 2 resultabit tibi tempus quod queris (2000° au tem in vno die argumeti vniuscuius quing planetaru superius nominatozu ficinueni tur. Ha in tribus superiozibus medius motus vniuscuius eozu in vno oie subtraba tur a medio motu Solis in vno ote. e remanebit motus argumenti planete in vno ote. In ouobus vero inferiozibus requiratur in proprije tabulis suozum mediozu argumetozum motus.

Propolitio vigelimaquarta.

24



Cltb Solie ? Lune: ? culuscus planetaru: bocest motum vinersus eq 2 69 tum ipsius planete in vno vie per tabella ad boc facta invenire. ? simili & 73 ter loca planeta ad. 2.0100: vi ad. 7. veruetia ad. 10. ? civièir. [Intra 3 77 primo tabella vinersor motuum planetaru in vna vie in linea numeri # 81 cum centro planete egio. ? qò ineneris in eins virecto in linea illa que 5 85 invitulatur motus centri. ? scribe illud. Et si in linea numeri non inue.

neria numerți eqlem centro: intra cum ouplici introitu: 2 fac parte ppoztionale per. 1 1.
Intrabia ețiă cum argumeto eqto in eadem linea numeri. 2 motum que inueneria în Directo eiua; qui intitulat motua poztionia accipe 2 scribe. 2 si super ipsu; in tabula scriptum inueneria Directua: tunc adiungea būc motum cū pozi. 2 aggregată ex bia 0000° est motua oiner sua. Si vero sup ipsu; scribat "Retrogradua: 2 motua poztionia minoz suerit motu centri: subtrabe minoze de maiozi. 2 residuă est motua planete in die. 2 pla neta est adbuc directua. Et si motua poztionia maioz sucrit motu centri: est planeta retrogradua, tunc est accipitur residuă post subtractione: 2 est motua diversua m die per retrograduatione. Si vero ambo motua sic accepti suerii: eqlectuac est planeta statica.

rius. (Et cum sciueris moti planete viner sum in viete iberitidan planeta virectus et voluerie scire locueius verum postaliquot dice: Latione eius bbabita scom doctr inam tabularii: multiplica moti eius vinerium pernumeriivicz quos babes et collectus ex bis erit motus planete in victus questris. Aggrega ipius super loci planete. 2 intenies locus planete ad oies futuros quos queris. Qo fiplaneta fuerit retrogradus: subtrabe bunc motti in pichus bdictis peloco planete cousto, z invenies locii eius ad pies que fitos. (TEt fi volueris locu erus in viebus pteritis ante die cotationis planete febm via canonii Lonfidera fi planeta fuerut orectus. 2 fubtrabas boc go per multiplicacione an tedictă eribit pe loco euro ecito, z invenies auod queris. Liò fi retrogradus fueritudui ge illud go per multiplicationem exincent ad loci planete ecitum: tunc babebia cotum. Et scito en ita poteria facere ad. 20. vies vel. 20. in Saturno Jone Warte ? Clenere: fi fuerint ourecti 2 yeloces. 2 bocest an prope Sole fuerint: V' retrogradt 2 cu bocfuerint Yeloces.boc est in tribus superioxibus añ sunt in oppositione cú Sole.z in Clenere añ argumentu eius est. 3. fignoz. Sed qui tardi fuerint in motu eoz: vel prope eoz statides non facies ita ad plures oies. 2 boc minus in Marte 2 Uenere. Et Uenus magis oiver fificatur in motio of Mars. Et mullus tam viversus in motio est ficut Mercurius, of fi velor fuerit in motuitu poteris că iplo facere vt oiri ad dece vies. Si aute tardus vel prope flationé:non est oueniens en ita facias:nistad tres pies vel ad čitior. Et cii volue ris facere bocad pies multos viad. 20. velad. 20. velad plures vel pauciozes 2 babne ris locum planete dus equatu per tabulas. Accipe ex tabula medii motus illius planete medium motu viebus tuis profitis corresponente a adde insum sup medium motum planete prius inventă. f. que equasti planetă per tabulas z et super centră medium z pe tientet medius motus planete z centră mediu cius ad vies tuos propositos că quo centro medio quere equatione centri a fac centrii equatii cii quo quere minuta poottiona lia 7 ea ferna, peinde in Clenere 2 Mercurio er tabulis argumenton medion eozu accipe argumenta media eox tuis viebus propositis correspodentia sed in supioribus sub trabe medui motum planete tuis viebus propositis correspodente inversi un tabula me dij motus eius a medio motu folis in eisdem viebus inventu in tabula sui medij motus 2 refidut est argumenti medit planete in viebo tuis propositis qo adde super argumê. tum medium planete prius inventu. f. pum planeta per tabulas equasti a pueniet argumentum mediú planete ad vies tuos propolitos veinde fac er eo argumentú equatú z quere equation è cius a fac ipfam equată cum minutis proportionalibus a postea equa ipfum planeta ficut opoztet z fic babebis locum planete equatum ad pies tuos propofitos fine ferupulo errozia.

Propolitio vigelimaquinta.

25



Attudinem Cleneris per tabulas invenire. Ecias pmo centru equum a argumentu equus per. 18.2 vnuquodos per se serva. Deinde cui ipsius vero argumento intra intabellas Cleneris in lineas nueri: 2 acci pe qo inveneris in oirecto intabella oeclinationis a reflexionis. 2 vnu quodos per se seossum scribe. Dostea centro Cleneris. 90. gradus ads de. of spost additione provenerit vltra signa. 6. sc 3 3. 3 60. projece inde

figna.6. [63 g. 3 60. 2 cu refiduo: vel cum eo qo fuerit minus fignis.6. [63 g. 3 60. ingrede re eafdem lineas numeri. 2 qo in eius pirecto inueneris pe minutis pportionalibus fume: 2 ferua. Deinde accipe parte proportionale peclinationis pus feruate fcom proportionem minutor proportionaliu ad. 60. per. 1 1.2 boc erit pma latitudo eius examinata

que prouenit ex Declinatione epicicli. 2 ferna ea. Si aut centrum vez ? argumentu vez com quo operatus es:boc est centru verum vargumentu veru cufuo addito fint in ea dem parte circuli:boc est si ambo suerint in medietate supiozi aut ambo in medietate in feriozi: erit ipfa latitudo eğta meridiana. Et fi vnum ifton fuerit in vna: 7 aliud in alia: erit ipfa latitudo septetrionalis. The eius Darte cognosces. T scribe sup cam nomen sue partis. Dr aut minerfair tam in centro of in argumento medietas superioz cui fuerit ces trum z argumentu a.o. in fignis z gradibus více ad tria figna comunia copleta vel a.9. fignis comunibus yfc ad. 1 2.cois. Inferioz vo or cum fuerit a tribus yfc ad. 9.coia fi gna. Deinde cum fimplici centro Cleneris dus fernato. fer antequa fiat fibi additio. 90. gradui lineas nueri ingredere. z od in eius directo inveneris de minutis poditionalibus in puobus locis feozing feribe. Deinde accipe parté proportionale ex reflerione pus feruata (cos proportione minutor ad. 60. per. 11.2 bec est reflexio examinata feribe eas extra ad parte. Tunc fi centru fimpler Cleneris per go bec minuta proportionalia fumplistifuerit in medietate superion: 2 cu bocfuerit argumetu vez planete min? 3.3. f. g. 80 erit reflectio examinata septetrionalis sed fi cum boc argumentu veru fuerit plus fignis. 3. fc3 g. 1 80. erit illa reflexio meridionalis. (Si vo centru verum fuerit in me) dietate inferiozi: a argumentii veru planete inerit minus fignis. 3. 163 g. 180. ipla erit re flexio meridionalis. Sed fi fuerit argumentu verum plus fignis. 3.13 a. 180. erit illa reflerio septetrionalia. Et sic erit secuda latitudo examinata: que prouenit ex reflexione epicicli ferua cam: a fuper cam feribe nome fue ptis, Doftea accipe de minutis propoze tionalibus in altero supra loco servatis sertam pte: que erit latitudo Ueneris terrio era minata que pueniet er ocuiatione deferentis ab ecliptica. estos semp ista latitudo septe trionalis. Dostea istas latitudines adinuice collige: si omnia sunt in eade pte. Si tame fint in oinerfis partibus: pt fi vna fit in parte feptetrionali: zalia in parte meridionali: veleconuerfo: Lunc subtrabe omne illud qo est meridionale abeo qo est septetrionas le:fi feptétrionale fuerit maius. vel econner fo fi meridionale fuerit maius. Et refiduum erit latitudo Clenerio verificata septetrionalio vel meridionalio ve.

Propofitio vigefimaserta. 26



Attitudinem Mercurifper tabulas inuenire. (Scito centro Mercu rij vero z argumento vo per vecimãoctaua: intra primo cũ argumeto vero in tabella latitudinis: a accipe qo in eiº virecto fuerit. [c] in tabel 73 la oeclinationis: z intabella reflexionis Mercurii. z vnuquodo: feou fum scribe. Tunc si centra verum fuerit in superiozi medietate er sola reflexione vecimă parte minue. Et fi fuerit in medietate inferiozi veci

mam prem illa reflecionis super ista reflecione adde. 2 qo post additione vel oiminutionem puenit loco pine reflexionis ferua: prima veleta Deinde cum cetro vo Mercu rij Signa. 4. cu vimidio. f. g. 270. adde. 2 fier additioe puenerit plus fignis. 6. fc3gradibus. 3 60. remoue inde figna. 6. sc3 gradus. 3 60. zcu refiduo: vel cu illo qo fueru min?. 3 60. lineas numeri tabelle ingredere: fumens minuta proportionalia que in eins oire cto inueneris. Deide de declinatioe pus servata accipe parté proportionale scom poor tiones minutos proportionalia ad. 60. per. 11.2 quod prouenit: est latitudo primo eraminara: que prodenit ex declinatione epicicli. 2 eam serva. Scias aut virum latitudo il la fuerit septerrionalis vel meridionalis eode modo penitus quo in pcedenti. scribe igu tur nome sue partis sup eam. Deinde centro vo Mercurii. 5. 3. sc3 g. 180. adde. 2cu eo

Bzopostio vigesimaseptima.

quod promeneritiep eandé tabella ingredere, è qo in èine oirecto inmenerie a e minure sis proportionalibus: sume: è in ouobus locis scribe, dende er reflerione pus scripes accipe parté proportionalem scom proportionem is de minutopad. 60. edoc erit resserve parté proportionalem scom proportionem is de minutopad. 60. edoc erit resserve parté proportionalem scom de cerri veri Dercuri cum suo addito cus quo mi nuta proportionalia vitimo sumpsis sum in medietate superiori eccodé modo quo oictum est imprecedéri pro babenda latitudine secudo eraminata: que protente erressectum suo addito: a ibi ca centro vero simplici. Scribe ergo eam: è nomé sue partis et accipe de postea minums proportionalibus in altero locori servatis quartam partes e dimidium quarte que pare cum suo dimidio est latitudo Dercuri tertio eramina sua que est semper meridionalis. Deinde das tres latitudines ad innicem collige: vi scia a ad qua partem sit latitudo eodem modo quo dictus est inuentre. Cacita auté vel muenta vi dictu est tam Dercuri si Ceneris latitudine: si psa sue si separa que su succipa est as certam latitudinem euus ad. 10, dies post es sem in die decima post videris aux sumentari: ipsa est ascendere, et sem diminui videris: est descendere. Et se insa latitudine sumentari: ipsa est ascendere, et sem diminui videris: est descendere. Et se insa latitudine

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bebis propositum.

Atitudinem Martis Jouis 2 Saturni per tabulas invenire. (Scias cuivilibet boză centrum eqtu: 2 argumentă equată per. 18.2 quodlibț per le scribe ad parte. Deinde fi illud centrum eqtă est Martis: ipsum ficut est simplir oimitte. Sed fiest Jouis: ab eo centro. 3.20. minue. Si vo Saturni: ipsi centro 3.50. adde.ei cu eo quod prouenerit luneas nu meri tabelle latitudinis triu superior que augmentant per. 6.3. ingredere. 2 qo in eius osrecto inveneris oe minutis propozionalibus accidere. 2 qo in eius osrecto inveneris oe minutis propozionalibus accidere.

De. Deinde cui argumento vo planete iam servato intra eas de lineas numeri. 2 00 in 01 recto inneneria de latitudine septetrionali vel meridionali: sume boc mo. Si n. suerit ce trum vez planete cum fuo addito vel orminuto a. o.in gradibus v for ad. 8. 1. 3. 20. fc in g. 90. vi a fignis. 4 g. 30. fc3 g. 270. vice ad figna. 6. fc3 g. 360. repertii. fc3 in fupiozi parte tabelle. accipe latitudine septetrionale: que of Effregion septetrionalis. Si aut Predictum centrii fuerit a figno. 1 .et. g. 30.163 a g. 90. v(cp ad. 8. 4. g. 30.163 ad g. 270. sczer inferiozi medietate. accipe ve inferiozi medietate latitudine meridionale: que vici tur Effregion meridionale. Postea accipe de latitudine ista pté proportionalem scoz p postlonem minutoz proportionaliu ad. 60. per. 1 1. z illud qo propenit erit latitudo stel le in parte in qua inneneris ea. Deinde filantudo alicuius ipsoz fuerit septetrionalis et argumentij veru minus fignis. 3. [c3 g. 180.erit afcendens.fi vo plus vefcédés. S3 eco. tier fo erit fi fiverit eius latitudo meridionalis. na fi tunc fuerit argumentu verum minuo fignis. 3. 163 g. 180. erit vescendens. Si vo plus: eru ascedens. (Dic est notadum: off centru equatu 7 argumentu equatum cu quo intrasti no possis peise inuenire: trabis cum minozi ppiriquiozi: 2 accipe qo invenerio in directo: 2 extra (cribe. Deinde intra cii maiozi pzopingujozi: z accipe etiam guod inneneris in otrecto: gó etiam extra scribe. Deinde subtrabe minozem de maiozi, y refidui accide parté proportionalé scôm propor tionem excessus numerici quo intrare debuisti tabella ad numeru minozem cum quo intrasti ad. 6.02 illa tabula augmentas per. 6. Quam parte proportionalem adde editio si pmesi fuerit minor secuda. Et sic fac in omnibus tabulus que augmetant per fer re.



Empus Lóiunctionis vel Oppositionis veri luminariii:boc est so. 9 1. Solis 7 Lune ad quodeños tepus cuinscios meridiani invenire. (L'Undead boc ineniendu necessaria sunt quatuoz. Dzimu est ex tabula előgationis Lune a Bole invenire media cóiunctionem: fi volueris veram counctione, vel mediam oppositiones si volueris babere verá oppositionem. Scóm est inuentio locoz Solis 2 Lu-

ne tempoze piunctionis vel oppositionis proposite. L'ertis est inventio puodecime par tis loandinis Solis ? Lune. Quartum est inuecio motus Solis ? Lune in vno minu

to piel: vel in vna boza. Iccirco earum bic pzimo ponemus propositiones. Empus Dedie Lounctionis vel Oppositionis Solis 2 Lune per tabulam

ad boc factă innenire. (Reduc totum tos propositu ad viem in qua estimas coiunctione aut oppositione soze ppead 4 3 2 et 1 scom ooctrina prins tradi tam. Quo facto scriberadicem medie elogatiois Solis & Lune prins. 2 veide fo. 47. intra cu quartis zc. in tabula medie elongationis Solis z Lune oirecte eode modo per omnia operado: ficut victu est in ve medija motibo. Et cu omnea introitua feceria: 2 numeros addideras:in code tempose est media piunctio ad go operatus es:si pueniant si gna. 6. beife. Et fi tria: in eode tempoze est media oppositio. Si vo no proueniut figna. 6. nec tria precife: tilc fl polueris invenire colunctione: subtrabe illud go provenerit de fignis.6.2 serna residuit. Si volueris oppositione: subtrabe illud qo provenerit de st gnis. 2.2 ferna refidut. Ono facto quere illud refiduti in tabula medie elongationis, et fi fuerint ibialiqua fignaçõre ea in oma linea post linea numeri. As ocise totum numerus fignoz a graduu ač non invenerio: accipe minoze propindozem. a vide numez (criptus in pirecto in linea numeri, que scribe extra, a funt pien, serva eon ad pte. Deide subtrabe illud qo accepifti un tabula. Icz figna z gradus zc. a numero tuo que babebas. Icza fignis z gradibus zč.vt (cias refidui. Lum quo intra tabula eade. Et fi fint gradus in refiduo: quere eos in oma linea post linea numeri. 2 si eos inveneris: illud avod scriptu est in li nea niveri erut minuta pieru, (cribe eos extra post pies paius servatos. Si aŭt iverint tot gradus: o no poterint in oma linea inveniri: tunc dre eos in scoa linea in illa pte voi est cifra vel.o. in pma linea: vel minose numer propinquiose. e tunc illud qo (criptum eff in linea numeri funt vies. Scribe eos extra fub alijs pus scriptis. (Duo facto vide fi ali dd fit refidui fubtrabendo illud cii quo intrafti a niiero 140.2 illud iterum quere in ea dem Linea. Et fi in refiduo fuerint minuta z invenerio in pma línea. tunc illud go scriptu est in linea nueri sunt 2 viez. Si autem fint tot minuta op in oma linea non poterunt in veniri. tunc quere ea in scòa linea: in illa pte in qua est cifra vel.o. in oma linea. t tic qò scriptum est in linea mueri sunt minuta vierum. Et istas venominationes ostendut tituli subscripti in pede tabule. Et uto modo ops te intrare ponec totus numerns copleas. Et est similia modus opadi fere sicut un tabula voi orunt ani per 4 ; 2 et 1. Et scias opoies fic intenti funt vies coplete computate a meridie viei bredentis. Similir 2 minuta vie rum 2c. sunt copleta: ficut ani menses 2 figua. 2 oia que inveniunt in istis tabulis sunt cópleta. Quo facto ples a minuta pierum a ceteras fractiões: õs inuenisti per operatio nem: adde tempozi cu quo afiuitti media elongatione. 2 go postadditionem prouenit: erit tempus olunctionis vel oppositiois medie. (Si vero babita olunctione volueris modo faciliozi inuenire oppositione fegntem. vel babita oppositione volueria vitictio nem segntem (egle.n.est tempus ytrobias) adde supra tos quoduis istor vies, i 4.mi »

mus olep. 45. 7. 5. 3. 3. 4. 4. 8. Esteiam quadraturas volueris inuenire: Adde fappa tempus oiunctionis oles. 7. minuta olep. 22. 2. 5. 7. 3. 3. 1. 4. 5. 4. 7. babebis Gdraturam pmā. Adde illud idem supra tps oppositionis: 7. bebis Gdraturam scoam. Call substa confunctione volueris innenire olunctione imediate segntem: Adde supra tepus innentum coiunctionis oles. 29. minuta olerus. 31. 2. 50. 3. 7. 4. 36. Im. n. est ab vua olunctione ad aliā. Et ita babebis tps olunctionis vel oppositiois mediu ad meriodianum Ioleti. Est aut te in alio loco existente ad meridianu tuu velis reducere illo tempus: qz sozsan alib babitas. Lognosce tps oistantie meridiani loci tui a meridiano Ioleti. Et si meridianus loci tui sueru ozientalioz meridiano nostro: Illud addas ad tepus oiunctionis 20 poositionis 27. per nr as tabulas itientu. Si vo occidentalioz: ipsum siunctionis 2 oppositionis 7. per nr as tabulas itientu. Si vo occidentalioz: ipsum

Erum locū Solis ? Lune boza medie punctionis cuintaige ? oppositionis inuentre. (Scias argumentú Solis per. 15.? cū eo intra tabulá equatióis Solis: ? opare scóm poctrinam. 16. cognitam. ? babebis verum locū Solis. Solis: ? opare scóm poctrinam. 16. cognitam. ? babebis verum locū Solis. I (Terum aŭt locum Lune bebis querendo argumentú Lune in tabula equationu lune. ? in pirecto inuenies equine argumenti cum suis titulis adde vel minue: si cu argumento no si sint minuta. Si vo cum argumento sint minuta: sa proten popozitionale; vi pictu esti in. 11. banc equine adde vel subtrabe scóm quituli admonent: a medio mo tu. 2 protent verus motus lune. (The pen. 1.) iunctionis vel oppositios pro sacienda equine no ingredunur cú eius centro: que quatío centri mula est. The etia accipimus piaerssitate viametri circuli brenis: qua minuta propositionalia nulla sunt: sed tiñ cuz equatione argument operamur. Et babebimus proposition.

Codecimă ptes vistătie unter Sole 2 Lună inuenire: vt fieri ops în equădo plunctiones 2 oppositiones solis 2 lune veras. (Lü gradibus vistătie evă intra tabellă vistătie pmam 20.2 g. et fi. ibi inuenta extra nota. Deinde că mi nutis vistantie intra in tabellă scoam vistantie 20.2 qo ibi iueneris ex minutis 2 scois sub pmis scribe. ps si in vistătia suerint 2 intra tertio eande tabulam minutorum. 2 qo ibi iueneris: sub pmis iuentis pone. sta tri quininuta sub scois ponans. Oò vo ex eva aggregatione puenerit: erit vuodecima para vistătie inter Solem 2 Lunam.

Drum Solis & Lune omerfum in yno oie: vel in yno minuto olei vel in yna boza inuenire. (Inuento vo loco Solis 2 Lune: yt supra boza medie coium ctionis yel oppositionis per pcedentia supius yide oisterentia id est sogitudi nem inter yez locum ytriusquita. squbtrabendo minoze a masozi. 2 qo remanet est longitudo. Et vide cuius sit longundo. est. n. logiundo eius qui peesserit alteru in ordine fignop: id est tunc talis logitudo est Solis: fi Luna nodum ofecuta est fole in Siunctione: vel nadir Solis in oppositioe. Cel est Lune: si luna iam trasiuit solem in coiunctione: vel nadir folts in oppositione. Danc ergo logitudine serna et scribe intra longitudo Solis vel Lune: scom op oporter. Lunus longitudinis accipe ouodecumă parteze z ipfam eide longutudini adde. z illins totins partiendo pfum in ouo media accipe medietate: zed cum argumento medio Lune cu quo inucnifi eius vez locu adiunge: fi fue rit logitudo folis. Lel ab eo minue: fi fuerit longitudo Lune. z co prouenerit: erit argu mentum lune eğrü pro ineniendo motulune equatu in yno minuto oiei: vel in yna bo-2 ra: fi volueria forte operari per bosas vi. 2 ferua ipfum. Deinde intra cu argumento for lis in tabula moto diveris folis in vno minuto diei: fi volueris operari per minuta die rum zc. querendo figna in supiozi pte tabule trasuersalir: z gradus in linea longitudinali que descendendo augmentant. Clei iferiozi pte tabule et transuersatir a gradus in lunea

longitudinali que ascendendo augmentatur. 2 03 in eius directo ineneris de motu 30. lis diverso accipe: fi perfedotes en invenire: que est motus solis in voo minuto diei eqtus. Si vo non precife inuenias eŭ:fac partem ppoztionale per. 11. Deinde eodem mo do intra cu argumento lune cu fuo addito feu viminuto feruato: fi pcife potes ipfuz in menire. Si vo non: fac partem proportionale: vt supra per. 11,2 go in eius virecto iue nies est motus Lune diversus in vno minuto diei. (Si vo (qui forte oparis per boras) motum folis ? Lune in vna boza volueris inuenire: Refolue fiana araumetozum folis vel lune in fiana comunia. 2 cu illis intra tabulă Motus oinerfi in vna boza intitulată: 42 eodem mo operado ve iam fecisti in tabula motus in vno minuto oici: semp faciendo partem prottionale per. 1 1. si opus fuerit. 2 babebis moti oiuer sum in vna boza: quo mediate iuenias boză veram ounctionis vel oppositionis. (Et nota bic:qz l3 per istus modu possis inventre motu solis in vno minuto piei: vel in vna boza: in quocuo: loco ecentrici fui fit fol: Zame motu lune in vno minuto oiei; vel in vna boza per tabulas inuenies folu an centrum epicich Lune est in auge ecentrici sui adest boza viuctionis vi oppositionis Solis & Lune. Si igit velis motum lune in vno minuto viei: velin vna boza vbicum fuerit in suo ecentrico: Uen locum lune ad tepus propositu inuenias. Deis de ad vnum minutu oter vel ad vna bozam post tps propositum itez innenias locu lune verum. Et túc fubtrabe omuma fcoo. z go remanet est motus Lune in vno minuto piei: vel in vna boza: scóm co opatus es. Lonsimil posset sieri de sole: subtrabedo eius motum verus omo babitu a vero motu ipilus icoo babitum, z proueniens effet certior eius in vno minuto diei: vel in vna boza motus. []te nota giper ofimilem modu po tes invenire motum coz equatu in vno oie. [cz pzimo querendo va loca earum ad tepus Offderationis tue, peinde ad vnú olem post. z tunc subtrabendo pzimum a scoo, z babe bis motum eozum in vno vie equatum fine verum.

Empusigitur Conjunctionis 2 Oppositionis vere Solis 2 Lune ex supradi ctis fi vis inuenire. (Scias tempus medie counctionis vel oppositionis eo rum: yt supra. Deinde scoo scias yez locum solis z lune boza medie piunctio nis. vel loca vtrius boza medie oppositionis: vt supra. z vnuguodo: seorsus ferna. Deinde vide fi verus locus Lune fit in eode gradu z minuto atos scocin quo ver rus locus folis: Zunc conictio vera z media funt in eode tempozis pucto. Cel fi vero lo cus Lune fit etiam in eodem gradu z minuto z scoo in quo est nadir Solis: Lunc oppositio vera z media sunt in eodem tpe. Deinde tertio si sol z luna no suerint in eodem loco: tunc cognito motu folis a lune equato in vno minuto viei: vt supra, veinde motuz Solis in vno minuto viei subtrabe a motu Lune in vno minuto viei, z od remanebit of Superatio lime in vno minuto piei. Dostea vide quot sunt gradus longitudinis in ter solem z lunam. Deinde supationi adde pzo quolibet gradu longitudinis vno gradu amoto vnum scom:pro quolibet minuto vnu tertium zebocest oicere: fi logitudo fue rit g.s. addead supatione tot 2 minus vno:idest gtuoz 2. zboch luna suerit ininferiozi pte sui epiciclicid est si argumentu ecitu lune suerit plus tribus signis, vel subtrabe si fue: rit in supiozi parte sui epicicli: id est flargumentu equatum Lune fuerit minus tribus fl gnis Et qo post additione vel subtractionem puenerit: erit superatio equata, 7 ea3 serua. Quo facto reductota longitudine ad eandem oenominatione. fc; ad 2 vel 3 2c. reduc et superationem ad eadem penominatione. sad. 2. vel 3 2c. Quo facto pinide lon gitudinem per superatione. 2 go provenerit in nuero quotiente: erunt minuta viez. scribe ea ad partem. Et fl aliquid remaserit post viuifione: multiplica illud per. 60.2 viuide per idem godus, sa per superatione, a numerus quotiens erunt a vieru, a pone ea post

minuta vierum dus feruata. Et fl aliga remaferit post viuisione: multiplica iterum per. 60.2 pinide etia per idem quod bus. 2 numerus quotiens erunt i pierum. Et fiadbne remanserit aliquid:multiplica illud itez per. 60.2 oiuide etia per idem quod ous.et nu merus quotiens erunt 4 vien ? fufficit. Si tri forte longitudo victa effet minoz of fune ratio:multiplica longitudine per. 60.2 postea piuide per superatione, verunt 2 pierus. Et fi fuerit aligo refiduu: operare vt iaz supza. Quibo expeditio minuta z z pieru zc. que inuenisti per pinistones adde cu tempore medie pinctionis vel oppositionis, a boc si lo gitudo fuerit folis. Clel ea subtrabe a tempore medie signationis vel oppositionis: si logitudo fuerit Lune. 2 quod post additionem vel subtractione prouenerit: erit tos vere Dunctionis: fi opatus es de diunctione. Aut vere oppositionis: vel valde propinqui: fi operatus es de oppositione. Deidead istud tempus quere mediu moru Solis: 2 medius motum lune: 2 argumentu mediu Lune 2 Solis. 2 equa folem 2 luna fcom omnes picis flonem qua poteris. ? fi cocordanerint in fignis gradibus ? minutis: sufficiattibi. Si vo non acordanerint: subtrabe minozem de maiozi. 2 remanebit longitudo, qua serva. Del de super mediu motum Solis quem nunc vitimo babuisti adde motu Solis in vno se cudo piei: z itez super argumentu. z equa solem vi ous. Quo facto a motu solis nunc in uento subtrabe motum solis dus igentu. 2 quod progenerit erit motus solis in vno se cudo piei. Silr facias de Luna. Iczequa eam per vnu Icos diei post tempus ad ob equafti eam. 2 subtrabe omum a secudo. 2 babebis motum eius in vno scoo viei. Quo facto subtrabe motú solis in vno scoo piei a motu lune in vno secudo piei, z proteniet supa tio.per qua piuide longitudine. 2 numerus quotiens erunt 2 vieruz. 2 fi ad remanserit: multiplica per. 60.2 divide per ide quod pus. verunt 3 dieru: 2 fic quatulibet. Sile eft fi per motu folis a Lune in boza oparis per oia:nifi o refultans est boze a cetere fractio nes bozaz. Quo peracto tps istius viuisionis adde sup tempus ve viunctionis dus inue tum: fi yltima longitudo fuerit folis. Uel subtrabe fi fuerit Lune. 2 00 post additionem vel subtractionem puenerit: erit tempus vere punctionis viebus non editis. Ad quod tunc ore locum Solis z lune: vtrug precise equado. z videbis propositum. Ed az modus iste inueniendi tempus coniunctionu vel oppositionu verum

multum: maxime non exercitaus: Qui igitur vellet breuius z expeditius tem pus inter mediam coiunctione a veram invenire: posset operari boc mo. Da bito tempoze medie piunctionis vel oppositionis: 2 ad illud tépus verum locu solis 2 lu ne: 2 peinde eozum motu in vna boza per precedetia inuento. 2 per modu iam pictus fu pra babira longitudine e superatione equata e servata. Lum gradibus un longitudinis 94 2 minutis un superationis intra tabula intitulată: tabula intentionis tois inter coniun ctionem vel oppositione media a veram a bozas et fractiones in angulo comuni gradi bus logitudinis in latere tabule inventis a minutis superationis in capite tabule inven tis accipe. Accipe et vifferetia scripta versus vertus ver minutis longitudinis intratabula intitulata. Labula altera inueniendi tepus inter coniunctionem vel oppositione media a veram in linea laterali pescendente a cua minutio superationis in capite tabule a minuta a scoa que in angulo comuni inuentes accipe et fi intrando cu minutis longitudinis in oleta tabula baberes tot minuta longitudinis o ea non posses precise inuenire intra primo cu nuero minori propinquiori in tabula repto oeinde cu refiduo 2 minuta 2 scoa que inuenies adde bozis 2 fractióibus quas palus inuenisti 2 serua. Deinde cu minutis longitudinis itez intra candem tabula a cu oisfere tia scripta in capite tabule a latere minutor superationis cu quibus intrastia minuta et

iam pictus: licet fit preter ceteros maioris veritatis: Lamen quia laboriofus

scòa que mangulo cómuni innenies adde differètie quá scripsisti ad parté. Deinde accipe partem, ppozitionalem buius aggregati sm. ppozitione fractionu quas babes in superatione yltra minuta ad. 60. 7 bocsacies custabula tabular ad omnes calculationes. Et qó provenerit subtrabe ab boris 2 fractióibus quas diri servari 2 proveniet tibi tips inter conjunctione yel oppositione mediam 2 yerá qó addas ad tempus medie diunctionis yel oppositióis si sogitudo surit solis yel nadir eius yel subtrabe si sogitudo surit lune 2 pueniet tibi tépus yere diunctionis yel yere oppositionis diebus no equatis yel yalde ppinqui. Si yero sine omni scrupulo salitatis yelles invenire tepus yere conjunctionis yel yere oppositiós. Ad tips ita inventum quere loca yera solis 2 lune et si surit in eodé loco yel locis directa oppositis babes intentii: si vo suerint in diversis locis iterum longitudine 2 motú solis 2 lune in bora 2 superatione invenias yt supra et per modum dictú operare 2 proveniat tibi tips verissime conjunctionis yel oppositionis de quocis operatus es 2 ad illó tips debere queri loca yera solis 2 lune si fuerit opus.

Propositio vigesimanona.

29



Empus Commectionis ve cuinsuis planete cu quolibet alio inemre. C. Loss dera tempus voiem ppindorem sumetioni; vel quo estr mas eop confunctioné sore pperper estimatione rationabile: scòm oppoteris ppendere loca ipsop in meridie. Et quere va loca eorum ad meridiem illius temporis. Et si tuc loca illox planetar concriuit in signis gradibus v minutis v scòis vé, tunc eodé tempore est va

coniunctio eop. Bi autem vera loca illop planetaru non coueniunt in fignis e gradibus e minutis atos (cois ec.tunc subtrabe motum minoze a maiozi. e illud qo remanetterit longitudo. 2 est lógitudo illius cuius motus erat maioz. Quá longitudine ferua. Deinde înenias motă cuiuslibet illor planetarum post tepus in quo pmo equasti in vno vie se cudum poctrină traditam. Deide confidera virum ambo planete fint pirecti: vel ambo retrogradi. vel vnus fit virectus e alter retrogradus. Si ambo fint virecti: vel ambo re trogradi.tunc inbrrabe motii viei planete tardiozis a motu viei planete velociozis. 2 qo remanserit: erit superatio serva ea. Quo facto reduc locitudine que est iter ipsos ad ide genus. (czad ? vel ; zč. Reduc etiam supationem ad genus filis venominationis ad qo logutudinem reducifti. 103 fi longitudine reducifti ad. 3. reduc etia supationes ad 3.2 fic pealis. Quo facto viuide longitudine per superatione; si potes: 2 nuerus quoties erunt pies. Et fi aliquid post outifioneremanserit: multiplica illud per. 60.2 postea outide per idem qo pus. 2 numerus quotiens erunt minuta viez. Et qo post viutionem remanseric.multiplica per. 60.2 postes viuideperide quod pus. 2 numerus quotiens erik secil da vierum. effe procedes vique quo tibi placuerit. Quibus expeditio tempus qo inenisti per oinistonem: adde tepozi ad quod osinisti vera loca illoz planetarum. z boc si tuc piunctio vera illa estadbuc sumra: boc est si planeta tardior precedit velociorem. Cles subtrabe ab codem répose: si conjunctio vera est preterita: id est si planeta velocios pre cedit terdiozem. Et tunc ao post additionem vel subtractioné provenerit: erit tps cons innctionis vere. Existe modus operadi est: cuambo planete quor ofunctionem queris fuerint ourecti: vel quado ambo funt retrogradi. In retrogradatióe tri itellige eum par cedere qui minus babet in fignis gradibus eminute ec. Si vero vous cox fueritoire etus. alter retrogradus: peralium modii opoztebit teopari. Et illud sepecotingit: 200 tingere potest in punctionibus Cleneris & Mercurij cum dbuslibetalija. Potest ena

contingere in siunctionibus trium subiozu cum iferiozibus: la îter se non possint boc modo coiungi:propter boc quado funt viuncti:equaliter viftant a Sole.tunc et edil ter oistant ab augibus epicicloz suozum: vel quasi equaliter. Lum igitur iueneris vna Directu: 2 alterum retrogradum.tune quere motum pirectiin pno pie, zetia motum retrogradi in vno vie post tempus editionis. Quibus babitis junge illos vuos motus fi mul. 2 per illud qo prouenit: viuide longitudine: vt bus victum eft. Et tunc viidera fi los cus planete retrogradi fuerit minos loco planete directi: quia fi fic: ias preterit illa coium ctio.tunc subtrabe tempus go per viusione inuenisti a tempoze ad quod quesignisti ve ra loca illozum planetaz. Si vero planeta retrogradus fuerit plus in gradibus 3 minu: tis & virectus tune counctio adbuc est futura. Quare adde tepus od eriuit per pinifio nem ad tepue quod officiali vera loca illozum planetaz, z tune quod post additione vel subtractionem tua prouenerit: erittepus vere punctionis. (Si autem volueris mule tum peife scire tempus Diunctionis vere:opoztet te ad illud tempus ad quod nuc inue nisti planetan va loca grere. 2 si ineneris eos in eodem loco: bene erit. Si vo non: túc in menias vistatiam eozu per subtractione motus maiozis a minozi, z scias motu cuiuste beteozum in pno minuto viei per modum pus victum. sciasos supatione: si ambo fint pirecti: vel ambo retrogradi. Clel junge motus eoz in vno minuto ojei fimul: fi vnus eo rum fuerit oirectus: a alter retrogradus, a illud quod puenerit vel per fuperatione vel per motus fimul adianctos longitudine viuide. a numerus quotiens erunt minuta vie rum. Et fialiquid remaferit: multiplica illud per. 60. 2 viulde per ide quod ous . 2 erunt ž ojerů. z sic osequenter. Idě est pe bozis si per motů planetarů in boza oparis. Quo sa cto tempus iam iuentu per oiuisionem adde cum tpe dus inuento: si viunctio adduc est futura, vel subtrabe ab eodem si counctio iam trasiit, 2 quod post additione vel subtra ctionem puenerit: erit tempus ve diunctionis. (72) Dotum aut cuiuscuca planete in vno Die juenies per. 24. 2Dotum aut in vno minuto diei vel in vna boza redies jueniendo vera loca eius ad ouo tempoza per vnú minutú oiei oistátia; aut per vnam bozaz, Dif. ferentia nãos motus talium erit motus eius in vno minuto otci: vel in vna boza: scóm operatus fueris. Et bec circa tempus counctionis cous. (T. Sed yt res be facilius occurrerent querentibus: tabule quedam bic tabulis nottris fint inferte: que tépoza er primunt in guibus erunt counctiones Saturni ? Jouis: Saturni ? Dartis: ? Jouis of 5 7 2 Martis: scom medium moti per tabulas nostras, sc Alfonsi notate in annis oficno 96 ftri Jefu Chrifti. Unde vna counctio Saturni 2 Jouis scom mediu cursum suum in o habis tabulis currit 3. 2. 2.0. 1.53. m. 37.2.29. Et funt anni Christi Solares 19. mêles. 97 10. Dies. 9. boze. 14. m. 59. 2.36. ynius boze. Et boc pzobaui. Et boc fiannus non fue 8 4 8 rit bifertilis. (TEt nota bic ante incarnatioem Dili nottri Jeju Christi per anos, c.me 98 fes. 10. Dies. 14. bozas. 7.11. 39.2.36. boze vnus fuit media counctio Saturni et 30 ttis ad fitum medii mundi: Doc fuit post introitu anni pies. 12.boze. 16.fi. 20. 2.22. menfis Februarii post meridie victi sius. Quozu medij motus fuerunt Signu. o. g. z. m. 11.2.12.3.52.4.54. Mota que tu oches addere supra signa z g. zc. que babusti in Diunctioe media Saturni 7 Jouis fm tabulas noftras vt vides. 3.4. 3.2. m. 58. 2.21. 3.51.4.26.2 goer additione pueneritierit locus medie conjunctiois Jouis 2 Saturs ni imediate sequetis. Et isto modo facerent in oma triplicitate continectioes. 11. suppor nendo o victa media coniuctio fit figni arietia vel alterius figni. Et in vibua quatuoz tri plicitatibus faciunt confectiones, 41. Et fi inceperis a omo minuto fiani Arieris: vt vom eft.42. Diunctio fierent. 8.4. g. 1. m. 52. 2.56. 3.8. 4.46. 7 boc fumedo figna puraccipi tur in nostris tabulis. (cz Alfonsi. Et oes prescripte d'unctiones. scilz. 41, fiunt in annis

Lbzisti bisertilibus. 8 1 4. mensibus. 2. Diebus. 2 6. m. 3 6. 2. 9. vnius diei. 2 boc intellige do in numero omam diunctione. Et boc est multuz cotra dictum Albumasaris in libro de magnis coinnectionibus. (1) Tota of Mars diungitur Saturno in signo Lacri sm medium motu sum mannis Lbzisti bisertilibus scom istas tabulas in annis. 3 0. men se. 1. Diebus. (63. 19. bozis. 13. m. 5 1. 2. 1. Supponendo of dicta coinnectio susset in pzio minuto signi Lancri: erit seques contunctio pzedictor in pzedicto tempoze vt iserius. 8. 1. g. 3 8. m. 44. 2. 4. 3. 2 3. Ex quo apparet: of saddideris super gradus suentos tempoze medie diunctionis g. 8. m. 43. 2. 4. 3. 2 3. babebis locum imediate sequentis. Letera in tabulis istis singulis sacilia sunt studiosis astronomicis.

Propositio trigesima.

30



Empus d'unctionis cuius libet planete cum quibet stellarum fixar que nire. Escias pmo locus illius stelle de qua volueris doc scire: p. 13. Deide et scias verum locu planete ad tempus ppiquum confunctioi per estimationem. 2 videas distantia: doc est longitudinem îter plane tam 2 stellam. Cide et cuius suerit longitudo ipsa: an sci fuerit planete vel stelle sire per modum dictu in de diunctione 2 oppositione lumi narium. Deide scias motum planete stest directus: vel motur etrogra-

dationis ipfins fi est retrogradus: in vno osc; vel in vno munto oiei: yl'in vna boza: per ooctrinam in pzecedetibus tradită. The cures de motu stelle sixe în die ze. qu mot eius sensibilis non est in tam paruo tpe. nec opamur bic că superatione poter stellară sixară motus paruitatem. Deide logitudinem divide per bunc motă planete vt supra suentum în de ze. seon o opari volueris. Et tempus quod per bane divisione pzouenerit: modo dicto în diunctionibus planetar addas ad tos estimată dus babitus: si longitudo sue rit stelle sixe: planeta directus. vel si soțitudo suerit stelle sixe: planeta directus. vel si soțitudo suerit stelle sixe: planeta retrogradus. Si vo logitudo suerit planete: zipse directus, vel si fuerit stelle sixe: planeta retrogradus: te pus qo babitum est per divisionem supradictă subtrabat a tempore estimato. 2 qo post additionez vel subtractionem provenerit: erit tempus afstu: vel tempus sibi valde ppin quuz qo vt babeas precisum: reitera pluries si oportet: conec veritas rei tibi occurrat.

Propofitio trigefimaprima.

31



Throitus Solis a Lune ac Planetar in quodcüg fignum: vel in quacug partem celi intenire. (Solis igif itroitus in Ariete: qui ddem frequentius querif: viputa fingulis ănis: reliqs qui se fimilir brit sit exemplus. Si Igitur boc volueris inenire Quere verum locum Solis ad tempus, ppinquus estimationi tue. si ad temp quo estimas of Sol parama oistet ab Ariete. Quo inento: si tunc ipsus in

tenias Solem in pacipio Arietis the acceptuelt tempus qua sub un un inue nias in pacipio Arietis yt supa, vide oistantia eius.i.longitudines ab Ariete. qua scies per subtractiones veri motus solis a. 6. signis. Qua oistantia scita: reducea ad ide gen. Ics si sint ibi minuta 2 3 3 2c. reductotum ad 3. Qua oistantia scrus. Dostes scias motus Solis in yno minuto oiei: vel motu Solis in yna boza: p. 28. quem reducetiam ad ides genus consimilis demominationis ad qua reducisti oistantias solis ab Ariete: videlicet seducisti oistatta solis ab Ariete ad 3 reducet motu solis in minuto viei vel i boza ad 3. Quo sacto viude vistatia per motu solis in yno minuto viei: yel in yna boza. 3 nūcrus

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auotiens erut minuta vieru: vel boze fiper motum folis in vna boza viuiffili. 2 krua ca ad parteme a feribe supra ea suos titulos. Postea si remaseritalica numerus post viuis fionem: multiplica il lu per . 60. 2 go provenent pinide per ide q è dus sez motu solis In vno minuto olei: vel in vna boza zč. z nūerus quotiens erūt ž oleru vel minuta boza. ferna ca post omo servata. (es si. vel boze. Deide fied remaserit post oivisiones: multipli ca iteru per. 60.2 go provenerit ofnide per idem vi dus. 2 núerus quotiens crut 3 vie rum: vel 2 boze. 2 ferua ea post m. 2 2, vel post boze 2 m. referenda singula singulis. Et si remáscrit alidd go viuidinon postit; ve eo nó sit cura; que opatio satia possa est. IQuo sa cto vide minuta vieru que invenisti: si fint plura 3.60. pone pro.60, vnu vier. Clel fi in bozis plus bozis. 2 4. proueniret: pone pro. 2 4. ynú piem: ? refiduu maneat in loco suo. Quo facto tos qo ex tali viuitos provenerit: addas ad tempus tuu pus acceptu: fi folno du puenit ad oncipiu.i. omum minutu Arictis, vel ab wfo minue: fi iam trafiuerit princi pium.i.pmu minutu Arietia ? qo post additiones vel subtractione puenerit: erit tos introitus folis in pricipiu id est primu minutum Arietis: vel tos sibi satis propinqui. Qò vt beas certum:cú tpe go prouenerit are veru locu folis. 7 fi puenerit s.o. fi.o. 2.0. 3. 0.4.0. illud erit the itroitus Solis in omu minutu Artetis. Smaut: reitera totiens per modu victu in predentibus profitionib quousque tu puenias ad vitatem. zerit tps no equatú ad go velcú quo pebet ári loca planetarů. Et scom op piri tibi pe introity solis in Arieté idem itellige de alijs signis. Tholo tri te latere: cu babueris un aliquo ano tibi noto itroitus solis in Arietė: vel in anodaice aliud fignu bene verificatu: poteris per omnem vită tuă boc facilir babere per tabulă revolutioie anozu mundi in fine baru tabularum posită. Silr per cudem modă ve piri poteris inenire introită Lune valiozum planetarum in quodcune: fignum: 2 in quactica partem celi volueria. Et valet bocope rari volentibus icircintroitus planetarum in imagines celestes.

Propositio trigesimasecunda.

32



Empus Eclipfis Solis vel Lune in quocung mense ani: buratioem ? quatitate ipfius: qui erit ipfius prcipius: mediu: ato: finis per tablas ad boc factas inenire. Tabular i tri inferuienti eclipfibus funt plu res. sc3 Labula Arguméti latitudinis Lune; Labule oiuersitatis aspe ctue: Tabule eclipfium: que sunt ouplices. Queda.n. sunt tam Solis & Lune: in abus latitudo lune pro lineis nueri describif. 7 in istis opz

te itrare cu latitudine lune visa. Et oda sunt in obus Argumentu lune vescribis pro li neis numeri. 7 in Illis 003 te itrare cum argumento latitudinis lune. Sunt 7 alie Tabule: quas tituli z infriptiones manifestant. (Ex bis tabulis eclipsim extrabere: plura que

concurrent:propositionibus vistinctis ordine subsequentur.

/ Emidiametrum Solis 2 Lune 2 circuli ymbze in loco trāfītus Lune ipenire. C Lum argumento solio mediate quo invenisti eius egitione boza vere viun ctionis vel oppositionis irra tabula que intitulat Labula ad inneniendu semidiametros Solis 2 Lune 22.2 in virecto inenies (cmidiametrus folis sub suo titulo. (T. Lodem mo cum argumento lune îtra eddem tabulă: 7 in virecto bebis semidiametrus lune: 2 semidiametru ymbre: quodlibet sub suo titulo. Et itra semp cu ouplis ci introitu: fi opoztet. (Sed nota o lemidiameter ymbze bic postta supponit Solem elle in auge sui ecentrici. 2 fic non baberes semidiametru ymbze per illu modu:niñ qua do sol est in angezid est an multi est argumento solio. Si aut sol suerit abbi di in angez

tunc cum argumento solis îtra eandem tabulă: vaccipe illud qo est in virecta linea: que intitular Clariatio ymbze. vintra bis si opoztet villud qo prouenerit subtrabe a semi/diametro pus inuenta. v remanebit semidiameter ymbze eqta ad locu solis seu vistătiă.

Offibilitate neceffitate eclipfis inenire. C Lomoditate poffibilitatis necef-Atatifc alicuius eclipfis pus babita: no fruftre erunt labores in iueniendo ecli pfim. Poffibilitas igif eclipfis iolaris tpe viunctiois: vel lunaris tpe oppofiv tionis bis modis inenif. Invento the veriffime Diunctiois vel viffime oppo-Ationis vel vt plures volunt tpe tin medie sunctionis vel medie oppofitiois bito per 28. Quere ad illudipe argumentu latitudinie lune eqtu: vel scom alios argumentu la titudinis Lune mediu idifferenter quodeug libuerit. Quo iuento fi reperit Signuz.o. 99 z minus g. 1 2. vel fig. 5. z plus g. 48. vel figna. 3. z minus g. 1 2. vel. 2. z plus g. 48. vic eclipsim fore possibile solarem. scs fi opatus fueris ad tos coniunctionis. z lunarez: si ope ratus fueris ad tepus oppositiois. Si aut extra istos terminos reperief: vicunt eclipsim fore impossibile. Alij tamen ad bociuestigandu operant cum vera siunctione: vel cum pera oppositione:ad illud ses tos ineniendo argumenti equatú latitudinis lune: 2 ad oia vitra operado ve supra. Potes ergo quocuo iltoz modozuz ad libitum opari. sed cosu lo tibi: ve oibus bis modis operis antego oicas aliqua eclipfim foze ipoffibiles. Ham fi omnes bi modi fuerint ocordes in ipoffibilitate eclipfis: vic libere a fecure eclipfim fore ipossibilem: a aliter non. Et si vnus solus bozu modozus vicittibi possibilitate eclipsis vic libere z fecure eclipfim foze poffibiles. Et fic apparet o ad negatione eclipfis bi mo di scurrunt. zad affirmatione eiuldem vnus folus bozu modozum fufficit. C Sed tif oz sepereperit poffibilitas eclipfis alicnius per argumentu latitudinis Lune:qn tri no necessitas est fieri eclipsim. Est ergo regula Albategni de necessitate eclipsis solis talis: piueniant femidiameter Solis 2 femidiameter Lune tpe veriffime Diunctionis: 2 iun getur fimul. Et ad ide tempus ideniaf latitudo lune vifa. z tunc fi latitudo lune vifa fue rit equis aggregato ex semidiametris Solis a lune: trafibit Luna prope folem: a no ecli plabitur Sol. Et fi latitudo lune fuerit maiozipoffibile eft fieri eclipfim folis. Sed fi la titudo fuerit minoz Gaggregatu er femidiametris:neceffario fit eclipfis folis. [Tota 116 et fi latitudine lune visam no ineneria in aliqua tabulaz eclipsia solis:no eclipsabit sol. Si vo eam ineneris in alterutra tabularu: vel in ambabus:neceffario eclipfabif. The cessitate aut eclipsis lune boc modo inenias: Lopara latitudine lune adaggregatum ex ouabus femidiametris ombre a lune. Tunc fi latitudo lune fuerit maioz & aggregatus er victis onabus femidiametris:impoffibile eft fieri eclipfim Si aut latitudo Lune fue rit eqlis tali aggregato:trafibit luna ppeterminos vmbze: 2 non eclipfabitur. Sed fila titudo fueritminoz isto aggregato ex semidiametris:necessario Luna eclipsabitur. C Scitur etiam al'r necessitas eclipsis lune per tabula eclipsis lune: 2 per latitudine Lu 123 ne: vt fi latitudo lune tpe veriffime oppositionis no inenif in aliqua tabularum eclipsis Lune:imposibile est fieri eclipsim lune. Si vo inuenitur in altera earum vel in ambabo: necessario fit eclipsis lune.

Je viñs ad opus oiversitatis aspectus lune in longitudine a latitudine bora ve oiunctionis Solis a lune: vt per e à boram visibilis coi inctionis: que est me dium eclips solis sune: vt per e à boram visibilis coi inctionis: que est me dium eclips solis sune in logitudine a latitudine sunt facte luna existente in auge sui vesere in auge sui vesere in auge sui vesere poi pricipio enius libet signi. Et ergo si luna no sueri in istis locis: tuc oportet te egre our estate aspect pro loco diaci: a et pro loco epicicli a ecentrici in quo est luna. C Nota et quoi in essistana spect luna.

ne posita in tabula no est tota viuersitas aspectus eins: sed est residui manens post subtractione dinerfitatis aspectus solis a dinerfitate aspectus Lune. 2 pozie vocatur bec di nerfitas aspectus lune ad sole. (Lum igif volueris scire vinerfitate aspectus valia po pofita: Scias pmo tempus veriffime siunctiois viebus non egtis. rad ide tos fcias ve rum locu Solis z Lune: z argumentu ven latitudinis lune. z boc vocať argumentu la titudinis lune scoo equam: quarqumetum latitudinis Lune omo equatus esset argume tum latitudinis equum ad tos medie viunctionis. Scias ét ad tempus predictu motum lune in boza vna acceptu per argumentu ecitum lune mediante quo iuenisti ecitione ar gumenti tpe veriffime coiunctionis. Et scias filir motum solis in vna boza per argumes tum Solis:mediante quo eode tpe inenisti egitionem solis. Et silr scias superatione Lu nein yna hoza. Et boc totu fac scom voctrina in precedentibus tradita. Et oia predicta ferua: qz cu ipfis in fequetibus opaberis. (Deide cum vo loco folis are equatione vie rum cu noctibus fuis quareducta ad bozas z fractiones bozaz scom o bus oictuz est: adde tepozi veriffime viunctionis viebus non edits. Et tunc ad ide tempus fcias gradu afcendente: 2 gradus medij celi: 2 et afcenfiones gradus folis 2 lune: 2 afcefioes gradus ascedentis: 2 gradus medij celi in bozizote recto Que et serua. (Quibus babitis scias ptrum luna tpe veriffime viunctionis viebus egtis fit fupra terră:aut fubtus terram:id est ytrum boza istius siunctiois sit in vie vel in nocte. Doc auté scias sc. Si luna fuerit inter gradum occidente z ascendentem scom ozdine fignoz: tunc Luna erit supra terraz aliter vero eft fub terra. (Si vero fuerit fub terra boc eft:fi counctio fuerit in nocte:ni bil cures de ea: quia eclipfis no erit vifibilis. 2 marie fi fuerit pfude innocte. poffet th effe ppter oztuz Solis: vel paru post occasuz: o aliqua ps eclipsis videret. (Si aut luna te poze coiunctionis fuerit fupza terra fcias an ista vinctio fit ante meridie: vel post. Et boc ifto mo. Si luna fuerit inter ascendes 2 medius celi: boc eft of inter gradum ascendetes a locum lune funt pauciozes gradus & 90. tunc viunctio eff ante meridie. Si vo Luna est inter occidente a meding celi:boc est si iter gradum ascendente a locu lune sunt plures gradus & 90. tunc dunctio est post meridié. C Postea scias distatuam colunctio nis a meridie per bozas egles. z boc isto mo. Subtrabe bozas z minuca tpe verissune counctionis viebus equis a. 2 4. boxis. 7 boc fille boxe counctionis fuerint plures of 12.2 remanebunt boze vistantie coiunctionis a meridie. 2 sunt ante meridie viei seque tis. Si vo bore commetionis fuerint pauciores of. 12. ferua eas pro offatia commetionis a meridie. 2 funt post meridie eiusde viei. (Dabitis ergo bozis vistatie vere conuctio-12 nis a meridie:intra cuzeis tabula viverfitatis aspectus Lune: que facta fit ad tuu clima: 13 vel quefit ppior latitudini tue regiõis. ritra fub figno in quo est Sol. rboc in parte fu 1 4 periozi. sc3 ante recessum: si viunctio suerit ante meridie, vel in parte iferiozi: que intitu-15 latur Receffue:fi viúctio fuerit post meridie. Accipe igif minuta logitudinis in virecto istarum bozar inuenta. 2 babebis viuerstate aspectus Lune in logitudine: scu bozis no fuerint minuta. (Si vo cus bozis fuerint minuta: intra itez easde tabulas una boza su peraddica: 2 accipe in directo minuta logitudinis vt dus. 2 scribe ea extra sub alijs. Dei de scias differentia inter minuta logitudinis nunc accepta zous accepta. De qua zalia rum fractionii que funt vitra bozas perfectas accipe pte postionalem ad. 60 minuta. Qua partem pportioalem adde minutis logitudinis omo acceptis: fi minuta (coo acce pta fuerint plura minutis omo acceptis. Tel subtrabe ab eis: fi fuerint pancioza. 2 pue niet oiverfitas aspectus Lune in logitudie equata. supposito o Luna sit in pricipio signi fub quo intrafti: ¿ et inauge epicicli zecetrici. (Si vo Luna no fuerit in locis pdictis: túc minuta lógitudinis nuncimueta vocant Divertitas aspectus in lógitudine egra p

, bozis tii:boc est pro bozis vistantie coiunctiois a meridie. z tunc op; te equare vinersitatemaspectus istă p zodiaco ecentrico z epiciclo. Primo fi luna no fuerit in principio figni: tunc etiam îtra fub fequeti figno cum bozis vistantie counctivis a meridie. 2 in ea dem parte tabule accipe minuta logitudinis in directo intenta: ? equa et p minutis bo re. 7 babebis minuta boze: code mo penitus operando ficut victu eft. 2 bebis viuerfita tem aspectus in pcedeti figno in logitudine equată p20 bozis 2 minutis in pncipio figni fegntis illud fignu in quo est luna. De ide ofidera vifferentia inter minuta logitudi nis eqte pro bozis z minutis figni in quo est luna: z et figni segntis subtrabendo nume rum minoze a maiozi ve qua vifferetia accipe pte pportionalem scom pportioes graf duum: 2 minutop: 2 aliaru fractionu figni in quo eft luna pertransitop ad totu fignum: id eft ad. 30. g. z boc fac scom poctrina pata in. 11. Quam pte ppozionale adde ad pi uerfitate afpectus eqta pro pmo figno:fi vinerfitas afpectus pro fco figno eqta fue rit maioz. vel subtrabe eam a pria fi scoa fuerit minoz. Et qo post additione vel sub. tractione pueniet:est oiuersitas alpectus eqta p bous 2 minutis: 2 p20 loco lune in 30 diaco. Deinde fi luna no fuerit in auge epicicli: boc eff qui argumetu eqtum lune fues rit aliquin fignis aut gradibus z minutis.tuc vinerfitate afpectus fam muenta opoztet te egre pro remotione lune abange epicicli. Et boc fac illo mo. Lum argumento lune eg ta boza veriffime viunctiois viebus no equatis ura tabula equatiois viuerfitatis afpe/ 112 ctus. Et fi tale argumentu ibi pcife inueneris: accipe in orrecto minuta ppoztionalia in linea sup qua est scriptu Epiciclus. Si vo tunc argumentuz no precise unueneris: intra omo cu nuero minozi ppindozi in tabula scripto. z accipe in oirecto minuta ppoztionalia: ficut victu est. Deide intra cum maiozi nuero, imediate ibide inuento: 2 accipe etia mi nuta ppozionalia in virecto existeria. Deinde scias vifferentia illop minutori ppozio nalium subtrabendo numeru minozé minutozu de maiozi. De qua ofia accipe partez,p. poztionalem scóm ppoztione graduú z fractionů in argumento egto cotentoz vltra figna 2 gradus cu quibus primo intrasti ad. 6. g. 2 boc et fac per octrina. 1 1. Qua parte ppoztionalem adde minutis pzimo acceptis: fi minuta scoo accepta fuerint plura minu tis pmo acceptis. vel subtrabe ab eis si fuerint paucioza. e tunc post additione vel subtractione babebis minuta pportionalia equata. scom quor pportione ad. 60. accipe p. tem ppoztionale de minutis diuerfitatis aspectus in logitudine vltimo egtis. sc3 p20 30 diaco. Que pars proportioalis oftedit quatu oinerfitas aspectus fit augmetata propter vescensum lune in epiciclo.qua adde otuersitati aspectus pus inuente. zbebis viuersita tem aspectus tribus modis equatas. scs pro boris a minutis: a pro loco lune in figno in quo eft. z ecouerfo p loco eius in epiciclo. Et fi luna no fuerit in auge ecentrici: quod fcies ifto mo. Si nullu fuerit centru mediu lune boza veriffime Diunctionis viebus non equis.tunc in eode tpe luna est in auge sui ecetrici. 2 boc est qui siunctio media est eades cum counctione vera. Si vero cetrum mediu fuerit aliquid in gradibus a minutis: tuc luna non est in auge.tuc op3 te equare p ecentrico. 2 boc fac taliter. Lum cetro medio lu ne intra tabulă ectionis viuerfitatis aspectus. z intra cum vuplici introstu: fi opoztet: id est a centru medium non pcife inueneria; eode mo faciendi ficut imediate superius victum eft. zaccipe minuta pportionalia in directo existentia in linea que intitulas Ecen tricus scom quoz proportione ad. 60. minuta accipe parte proportionale de diuerstate aspectus lune vitimo inueta. se equa pro epiciclo. Et illa para pportioalis oftendit qua tum augmentat oiuerfitas aspectus propter vescesum epicicli lune ab auge ecentrici. Qua adde vinerstati aspectus in logitudine vltimo inuente. z pronenit vinerstas aspectus in logitudine oibus modis equata: sc3 pro boris 2 minutis: pro 30 diaco epiciclo: et 1111

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eccurico. (T. La nota fi cui argumento ecito lune nibil lucrires in minutis proxicialibus in tabula equationis viuerfitatis aspectus. túc viuerfitas aspectus egta pro loco ime in zodiaco.est etia equata pro epiciclo. Silir si cum cetro medio nibil ineneria de minutia p poztionalibus. 2 boc semper in sua linea ficut victi est tunc vinerstas aspectus equata pro epiciclo est et equata pro ecentrico. (Dabita igif oiversitate asbectus in logitudis ne omnibus modis eõra: reduc eam ad eadem penoiatione. (ca ad feba 72. Reduc enam supationé lune in una boza ad câdem penominationé ad qua reducisti pinerstaté a spe etus: 2 tune viuide viuerstaté aspectus per superationé: 2 in quotiéte propeniunt bore. Si vo divertitas aspectus fuerit ita parua o no possit dividi per superatione lune, tunc multiplica e a per feraginta, e postea pinide poluctu per superatione, e progeniue in quo tiente minuta boze. Et fifuerit alidd refiduu: illud multiplica itez per feraginta. 2 okuide per ide ad prius z proveniet fractio imediate sequens. Et tictos illomó provenies po catur Doze prime oiuerfitatis aspectus. Quas adde boris ve counctionis viebus editis: fi inter gradu ascedentem a locu lune fuerint plures gradus & nonaginta: boc est qui co iunctio fuerit postmeridie. Clel subtrabe illas bozas pinersitatis aspectus ab bozis ver re siunctionis vieb editis: fi inter gradu afcendetem a locum lune fuerint pancioxes gra dus of nonaginta: boc est si confunctio vera viebus equatis suerit ante mendiem. (Duo facto scias et vistatia illar bozar a post additione vel subtractione provenist a linea meridiana: scóm o ous victum est. e ille vocant bose scóe vistantie a meridie. Lum glus quere pinerfitates aspectus in logitudine: recte per endem modificut prius fecificaçuado se probozio e minutio e loco sune in sodiaco: epiciclo: e ecentrico. Et vo catur diversitas aspectus scoa. Quá enam divide per superatione lune in yna boza: eodem mo vt pus. Li tunc boze minuta z scoa que proneniunt: vocant boze scoe olgerst tatis aspectus, que adde boxis pere comunctionis viebus equatis: sez boxis ábus addidisti bozas pme vinersitatis. 2 no aggregato ex bozis vere coiunctionis: 2 bozis pzime vimersitatio. Et boc si inter locum lune a gradu ascendente fuerint plures gradus os nona ginta. Tel subtrabe ab eia. Es ab bozia vere piunctionia. 7 non ab bozia que remanent post subtractione boxaz prime oinerstatia asbectua ab boxia vere pinnetsonia 2 b sac fi inter locu lune 2 gradu alcendente fuerint pauciozes &. 9 0. ä. Deinde litaz bozaz que tibi nunc post additione vel subtractione puentunt etiam scias logitudine a linea me ridiana: ficut paus que pocabantur bose terrie o iffantie a meridie. Et cui illis itez quere viverstate aspectus in logitudine: eode mó operado sicut prius. 2 bec erit viverstas aspectus tertia. Deinde ofidera an ista viverfitas aspecto tertia fit maioz scoa aut mi por: aut par. Si par: es expeditus. or tunc scoa diversitas aspectus fuit egita e pera. cum cuius bozis pcede yt infra patebit: oz ipfe funt boze medie eclipfis. Oz tunc quantitas viuerfitatis afbectus Lune in lõgitudine erit eälis minutis que funt inter Solem z lu nam eadem boza. (Si vo pinerfitas a spectus tertia sit maioz secuida, tunc pinersitas sspectus ista boza erit maioz minutis que sunt inter Solé ? Lund tin quatum viuersi tas tertis excedit lecijdă. Si sut vinerfitas tertis fit minoz & scoa tunc vinerfitas asper ctus eadé boxa erit minos minutis que funt inter folem a luna: tri quatu oiverfitas (c**òs** excedit tertia. Quare opz te egite: 2 querere boza in qua pinersitas aspectus in logitudi ne fit eglis minutis inter sole 2 Luna eade boza: qz in ipsa erit medium eclipsis. Et boc fac illo mo. Si vinerfitas aspectus tertia fuerit maioz scoa: scies quato superet ea. 2 ser ua Differentia. Et tunc fi logitudo Lune ab ascendente fuerit minoz. 90. Etuncer mino tis bozap tertie vistătie comunctionis a meridie: quas per tertiă vinersitate aspectus in menisti: id est ex minutis bore: que seguunt boras copletas: subtrabe sexta pte vniº bo

ecito: bus fernato. Deinde vide quatu caput ozaconis mouef fcom curfum fuu medius 70 in bozis scoe oinerfitatis aspectus equatis: intrado. scz tabula medii motus capitis pza conis:cu bozis a minutis scoe oinerstatis aspectus equatis. a illu motum etia subtrabe ab argumento latitudinis scoo equato. 2 provenir argumetu latitudinis tertio equatus ad medium eclipfis. (Si vo longitudo lune ab ascedente fit plus. 90. g. tunc oia ifta que tibi nunc pcepi subtrabere a siunctione va viebus equatis: 2 a vero loco folis:et a vo loco lune: 2 ab argumento lune: 2 ab argumento latitudinis scoo equato pebet addi eifde zproueniunt oia ifta vt pus. fcz tepus medijeclipfis: 2 locus Solis z Lune: 2 ar gumetum mediu: a argumetum latitudinis tertio equatu tepoze medie eclipfis. C Dei 71 de cum argumeto latitudinis lune tertio equato qo nunc inenifti intra tabula latitudi. nis lune. 7 intra cum ouplici îtroitu: fi opz. 2 accipe latitudine lune quam ibi inuenies: 2 parte fuam: a ferua ad parte. Deinde fcias piftantiam bozaz medijeclipfis a linea meri diana scom modu prine victum.cu quibus boris intra tabula vinersitatis aspect?: 2 ac cipe minuta latitudinis in oirecto innéta: eodé modo pcedendo nunc vt prins, les equa do illam outerfitate aspectus pro boris a minutio: a loco lune in sodiaco tepore medis eclipfie: 2 p20 loco lune in epiciclo z ecetrico. Sed p20 epiciclo minuta ppozionalia no funt eode modo que bus fuerunt: qua argumetum equatu lune non eft ide. ideo opoztet te intrare cum argumeto lune egto ad mediu eclipfis iam fernato in tabula equationis pinerfitatis aspectus. a accipe minuta proportionalia in virecto ipfins inventa, a intra cui ouplici introitu fi opz. Simili locus lune non est idem qui prius.ideo oportet te intrare pro loco lune: in quo est tpe medij eclipsis. sez differetia que est inter diversitatem aspectus in latitudine inuenta sub figno in quo est luna: z inueta sub sequenti: accipien do parte pportionale scom proportione graduum e suar fractions que pertransinit lu na de figno in quo est tpe medijectipfis ad totum fignu. In alijs no differt opus:nec ops te istam oinerstate plus conare & semel. Diverstate aspectus in latitudine inventa: vide eius partez: id est virust meridionalis vel septetrionalis, z est semp meridionalis in oibus regionibus quaru latitudo est maioz. 2 4 g. vl quaz altitudo poli est maioz of fit maxima folis vecliatio: que ponif ad maximu a. 24. vest ide in sentetia. Dabito isto postea ofidera virum oinersitas aspectus in latitudine iam inueta: a latitudo lune prins innenta: fint in eade parte: id est fi ambe fint meridionales: vel ambe feptetrionales tuc iunge eas fimul. scalatitudine lune voiuerfitate aspectus in latitudine. v puenit latitudine. do lune visa ad medium eclipsis. Si vo vna sit meridionalis: a alia septetrionalis. tunc subtrade minoze de maioze: remanebit latitudo lune visa. que erit illius partis cuiona merus fuerit maioz.fcz erit latitudo feptetrionalis: fi latitudo lune fuerit feptetrionalis: 2 maioz vinerfitate aspectus meridionali. Ul' remanebit latitudo lune visa meridiona lis: si viuersitas aspectus in latitudine fuerit meridionalis: 2 maioz de latitudo lune se ptétrionalis, recouerso. Et boc vocaf latitudo lune visatpe mediseclipsis. Postea ou uerfitatem aspectus in latitudine multiplica per. 11.ch oimidio:boc est per. 23.medietates. 2 bocillo mo. Serua omo illam oinerfitate ad parte. veinde innenias medietatem illius vinerfitatis: qua et ferna ad parte. Postea tota vinerfitate aspectus in latitudi. ne prins fernata multiplica per. 1 1.2 pducto adde medietate ipfius iam fernatam. z in tali multiplicatione no fit variatio venoiationis. (Postea condera vty conjunctio sit ppe caput: yel prope caudam oraconis. Et boc fac illo mo. Accipe veru motu folis a lune tpe veriffune coiunctionis: qui tunc funt ide. 2 videas vtrumagis ocordant cu vero motu capitis: velcu vero motu caude per boctune feitur vtrum vera coniunctio fit p pe caput: vel prope cauda vaconis.na eficirca illud cu quo magis ocordat i fignis z gra

dibus. Deinde diversitate aspectus in latitudine multiplicată per. 1 1. cum dimidio adde cumargumento latitudinis tertio eqto:si coiunctio suerit cum cauda diaconis. vel sub; trabe ad eo:si suerit prope caput. Et si non posset subtradi: adde sidi. 3 60. \$\vec{g}\$ 2 post b sub trabe. 2 provenit argumentu latitudinis que equatu ad boraz medij eclipsis. qo serva. Et si cum illo argumento latitudinis que eres latitudinem Lune: deberet provenire ide cum latitudine Lune visa inter Solem 2 Lunam quam invenisti 2 servasti. Si vero suerit aliqua discordia: illa erit minima, et proveniet desectus ex parte istus operationis: 2 non illius.

Clipfis Solis quatitatem z ouratione reperire. TIntra cum latitudine vifa superius reperta in tabulas eclipsis Solis. 2 si cande latitudine precise in 116 Uneneria in scoa tabula: que est longitudinia ppiozia: 2 non inueneria ea in ta bula que est longitudinis longiozis. túc accipe púcta ecliptica. 2 minuta casus que in oi recto eius inueneris in tabula longitudinis ppiozis. 2 ferua quodlibet per fe. Si vo la/ titudinem lune visam non precise inueneris in tabula longitudinis ppioris.tunc intra primo cum minori ppinquiori inuenta in cade tabula. 2 puncta ecliptica: 2 minuta ca fue in pirecto inueta ferua. Deinde intra cu maiore propinque in cande tabula, ? pucta minuta in directo inueta fil'r ferua fub alijs: quodlibet fub fuo genere. Deinde fubtra be minoze a maiozi: quodlibeta fuo genere: yt fcias oriam tam puncto; & minuto; casus. Et de vtrace earu accipe parté proportionale scom proportione excessus numericu quo intrare oebuisti supra numeru minore: cum quo primo intrasti ad tota vifferentia; numerop minozis z maiozis: cuz quibus intrafti. z istas partes ppoztionales subtrabe: qualibeta suo genere inueto in oirecto minozis latitudinis Lune: subtrabendo ptem p portionale punctor a punctes inuentis in ofrecto minoris latitudinis lune: 2 parte ppor tionale minutozu cafus a minutis cafus in oirecto eiufde nueri minozis inuentis, 2 babebis pucta eclipfis: 2 minuta casus eqta pro latitudine lune visa que serua: quodlibet p fe. Deinde cu argumento lune egto ad mediu eclipfis intra tabula equationis oiuerfita tisaspectus: vaccipe. ii. v ? que in oirecto inueneris in linea que intitulatur proportio nes logitudină. z intra că ouplici introitu: fi opzequado ficut pus victă eft. Deinde acci pepartem pportionale de nuero punctor prins refernator: ? et de numero minutorus casus scom proportione minutor proportionaliti que nuc intenisti ve tabula equionis vinersitatis aspectus ad. 60.11. Et tunc qo prouenit er puctis: erit quatitas puctor cor pozis Solis obscurata. Et illud qo prouenerit er minutis casus: diuide per superatione Lune i boza. 2 qo puenerit erit tps qo e a pricipio eclipfis via ad medin. Si vo latitudi ne lune vifazin virag tabularu iueneris: intra virag tabula. Dio in tabula ad longi tudine longioz ?. 2 qo ibi inneneris in virecto de puctis eclipfis: de minutis casus accipe: 2 ferua ad partem. Deinde intra tabulă ad longitudine propioze: 2 filir accipe pucta eclipfis: 2 minuta casus que in virecto inueneris: 2 sub alije scribe: quodlibet sub suo gene re. Et filatitudine Lune visam in aliqua predictaru tabular aut in ambabus non une nies precife: tunc intra cu ouplici introitu: ? fac cofequenter vt prius victu eft. Deinde fubtrabenumez minozé punctoz de maiozi:fili numerum minoze minutoz cafus a ma iozi. 2 differentia punctoz ferua per le. filt z differentia minutozum casus. Deinde cu ar gumento lune equato ad mediù eclipfis intra tabula equationis oinerfitatis aspecto au ctam per. 6. gradus. 2 accipe minuta proportionalia que in virecto inueneris: vt prius Postes de qualiby differetia. ses tam punctor of minutor casus accipe parte proportio nalem scom positione minutor proportionaliu iam inuentor ad. 60.m. vt prius. 2 qo inde proueneriter punctio: adde punctio acceptio in tabula logitudinio longiorio. 2 qo

er minutis cafus puenerit: adde minutis cafus acceptis er cade tabula longutudinis lon gioris. Et que puenerint post augmentu: erut pucta eclipsis, e minuta casus equata ad locu lune in epiciclo. (Dabitis igitur punctis eclipfis z minutis casus equatis ad locu Lune in epiciclo scom alique predictor modorum. Si vie scire pricipium fine 2 oura tionem eclipfis: Lunc minuta casus equata ad locu consuctionis oiside per superatio nem lune in vna boza scóm modů sepe victů. sez reducendo vtrůca ad eadem venomina tionem: 2 postea viuidendo. 2 tunc in quotiete proueniet bore. Et si aligd suerit residui: vel si minuta casus reducta ad oenominatione ad qua superatio lune est reducta:non poterint oiuidi per supatione. tuc multiplica ea per. 60.2 post oiuide: 2 proneniunt minuta boze. Et refidui iterii multiplica per. 60,2 divide per ide qo pzius:2 pzovenunt 2 boze. Et tunc babebis bozas minuta ? 2 que funt inter pricipi eclipfis ? mediu: vel inter mediu z finem. Quas bozas minuta z z fubtrabe a tpe medijeclipfis: 2 pzoueniet pr cipium eclipfis. Et easde bozas rc. adde tepozi medii eclipfis: 2 pzoueniet finis eclipfis. Et easde oupla: pabebis oupla totă ouratione eclipfis. Deinde easde bozas que sunt inter pzincipiū z medium eclipfis: vel inter mediū z finem multiplica per motu Solis in vna boza. z productů oftedit quatu fol monetur a principio eclipfis více ad medius: vel a medio vica ad fine, z illud fubtrabe a vero loco folis unuento tempoze veriffune Diunctionis seu medijeclipsis. 2 pueniet verus locus solis in pzincipio eclipsis. Et idem adde vero loco folis tepoze medij eclipfis: ? pzoneniet verus locus folis in fine eclipfis. Dostea easdem bozas que sunta principio eclipsis vsos ad medium: multiplica per mo tum lune in vna boza. z quod proneniet subtrabe a vero loco lune tpe medij eclipsis.et idem etiam subtrabe ab argumento latitudinis lune quarto eqto. 2 proueniet verus lo cus lune: 2 argumento latitudinis lune grto equatum in principio eclipfis. Et idem adde eifdem: 2 proueniunt illa ad fine eclipfis equata. Deinde cu argumento latitudinis lu ne arto equato in principio eclipfis intra tabula latitudinis lune: z inuenies latitudine lune in principio eclipfis. Intra et cum argumento latitudinis grto equato in fine eclis pfis in eandem tabula: z innenies latitudine lune in fine eclipfis. (Et fi vis fcire quan 16 tum obscur abit:id est occultabitur ve superficie cozpozis solis quatu ad visum: Intra tabulam quatitatis tenebrarum eclipfis. 2 puncta ibi inuenta copara ad. 1 2.92 ficut fe

tum obscur abis: id est occultabitur de superficie corporis solis quatu ad visum: Intra tabulam quatitatis tenebrarum eclipsis. 2 puncta ibi inuenta copara ad. 1 2. qr sicut se babent pucta ad. 1 2. ita se babet pars eclipsata ad solem: vel adeius diametrum. Ut si essent, 6. puncta: medietas solis eclipsaretur. Si. 4. tunc vna tertia eclipsaretur. Si. 3. tuc vna quarta. Si. 1 2. tunc solis diameter eclipsaretur. 2 sic cosequenter. Et si argumen tum latitudinis quarto equatum suerita. o. in signis 2 gradibus vsp ad. 3. signa: eclipsa bitur pars septetrionalis. Si vo suerit plus. 3. signis: eclipsabitur pars meridionalis.

Empus eclipsis Lune quatitatem 2 ourationem eius inuenire. C Dabitotépoze verissime oppositionis viebus non equatis: queread idem tempus verum locum Lune: 2 nadir solis: 2 argumentū lune: 2 argumentū verum latitu
dinis lune: 2 latitudinē Lune. 2 considera cuius partis sit illa latitudo. so an
septētrionalis vel meridionalis. Scias etiam motum solis 2 motum lune equatū in vua
boza. Silr scias semidiametrum lune: 2 semidiametrū vmbze: 2 aggregatum ex eis iungendo eas simul. 2 becomnia serua: quia cū eis in sequentibus operaberis. Deinde cum
gradu seu vero loco solis intra tabulā equationis vierum cum noctibus suis 2 accipe
un virecto equationem quā reductam ad fractiones bozap adde tempozi vere oppositio
nis viebus non equatis: 2 pzoueniet tēpus vere oppositionis viebus equatis. Et boctene pzo tempoze medijeclips. C Deinde eodem tēpoze scias gradum ascendētem. 2 per
illum scias ytruzboza vere oppositionis luna sit supra bozizontē; yel sīra, id est. ytrum

oppositio vera sit de vie vel de nocte: quia si esfet de die: non viderel eclipsis: nis esfet p pe otti vel occasum, ztunc licet fit de die vera oppositio:tamen aliqua para eclipsia pos fet apparere. [Poftea pro quatitate ? ouratione inuenienda: cum latitudine lune in/ uenta ad medium eclipfis intra tabulas eclipfis lune: in quibus latitudo lune pro lineis 117 numeri ponitur. Quere igitur latitudinem Lune in predictie tabulie, et fi cam precis se inueneris intabula longitudinis propiozis et non inueneris cam in tabula longi tudinis longious: tune accipe puneta eclipfis: 7 minuta casus: fimiliter minuta oimidiemoze que in virecto inueneris in tabula longitudinis propiozis. 2 serua quodlibet per fe. Si vo latitudinem lune ibidem no precife inueneris. tunc intra candem tabulam cum ouplici introitu:operando eodé modo ficut victum est in ppositione. 2 2.0e tabulis eclipfis folis:in quibus latitudo lune vifa ponitur pro lineis numeri. 2 púcta eclipfis: a minuta casus: aminuta oimidie moze inuenta a equa pro latitudine lune serua: quode libet per fe. Deinde cum argumeto lune equato boza vere oppositióis intra tabulas egtionis viuerfitatis aspecto aucta per. 6. gradus. 2 accipe in virecto minuta ppozioalia. z intra cum ouplici introitu:fi indigeas: yt fepe prius victum eft. Deinde fcom propoztionem illoz minutoz ad. 60. accipe partem proportionale pe punctis eclipfis: fimili pe minutis cafus: 2 De minutis vimidie moze pus feruatis: que erunt puncta eclipfis: 2 mi nuta casus: 2 minuta more equata ad loculune in epiciclo tépore vere oppositionis. Si vero latitudine lune in vtrace tabula eclipfis lune inueneris.tunc intra tabulas ambas: pmo ad longitudine longiozem per modu prius victu. r puncta eclipfis: r minuta casus vimidie moze ibi inuenta serua ad parté. Deinde intra eodem mo ad longitudine ppio rem: 2 puncta eclipfie: 2 minuta casue: 2 minuta moze ibidé inuenta similiter serva. Dein de subtrabenumeră minozem punctoza maioze. 2 numeră munozem minutoz casus: fimiliter vimidie moze a maioze. z vnamquaq vifferentia ferua per fe. Deinde cum ar gumento lune equato bose pere oppositionis quere minuta positionalia extabula eq tionis viuerfitatis aspectus viaucta per. 6. g. per modu victus superius. Deinde cuius libet vifferetie pus servate accipe parte proportionale scom proportione minutorii pro poztionaliù in pdicta tabula inuentoz ad. 60. Deinde partem propoztionale vifferentie punctor adde punctis ad longitudine longiozem inuentis. Eodem mo partem ppoztio nalem differentie minutoz moze addeminutis mozead longitudine logiozem inuetis. Similir ve parte ppoztionali vifferentie minutozu casus operare. 2 babebis omnia illa equata ad locu lune in epiciclo: seu scom remotione lune a terra. Deinde minuta casus equata viuide per superatione lune in vna boza. 2 numerus quotiés erit boze. Et si fixe rit aliquid refiduti:multiplicaillud per. 60.2 pductit vinideper idem qo prius 2 proue munt minuta boze. Et fialiquid fit refiduu: bocetiam multiplica per. 60.2 pzoductu vi uide per íde qo prius. 2 proueniunt 2 bore. Quo facto babes boras minuta 2 2 que funt a pzincipio eclipfis vícuad pncipiú moze:fi buerit mozaz. vel a pzincipio eclipfis vícuad mediu:fino fuerit moza. Lode mo viuide minuta moze viuide p supatione lune in vna boza. z pueniunt boze minuta z z vel minuta z z folii.fi no fuerit aliqua boza: que funt ab initio moze vice ad mediú eclipfis. Quo facto bozas que funt a pzincipio eclipfis vice ad medium: fi non babuerit mozam: fubtrabe a tempoze verifime oppositionis viebus equatis. 2 remanebit tempus pricipif eclipfis. Et fi casde bozas addideris ad tepus ve riffime oppositionis: puemet tempus finis eclipsis. Subtrabe et tempus qo est a princi pio moze via ad medium eclipfis a tpe verifime oppositionis: remanebit pincipium moze. Et fi idem addideris ad tempus veriffime oppositionis: pueniet finis moze. Et fi ouplaueris tempus qo est a principio eclipsis yla ad mediu: pueniat tota ouratio ecli-

Dlozes eclipsium antege eveniant cognoscere. (Lonsidera latitudine boza veriffime oppositionis vel conifictionis que si fuerit ab. 1 .minuto in. 10.erit eclipfis nigerrima. Si a. 10. Vice ad. 20. eritnigra bis i fe viredine, Si a. 20. vice. 20. erit nigra cu rubedie. Si a 30. vice ad. 40. erit nigra cu pallor. Si fi a.40.vicad. co.palida grifea fi. co.vica ad. 60.grifea cualbedine. (Est étalio modo que fm Joanem de linerija debea diungere cum omo modo: donec scrutemur scientiam coloxis. Ét iste est. s. o ofideretur oistantia lune ab auge epicicli. Que fi fuerit. 3. figna vel propererit elipfis nigerrima. Et f fuerit. 2. figna. 2.30. g. vel. 3. figna 2.30. g. erit nigra cum viriditate. Bi fuerit. 2. figna: vel. 4. figna: erit nigra cum rubedine. Et fi fuerit vnum 2 Dimidiam: vel.4.2 Dimidiam: erit nigra cus palloze. Et fi fuerit. 1. vel. 5. erit grifea. Si aut fuerit. 20. a. vel. 5. figna 2.20. a. erit grifea cum albedine. Et licet Joanes de linerifo illo indifferenter vicat ve alibet eclipfi: alii tamen boc reftringut ad eclipfes lune. (Zlijpo nunt vifferenter ve coloribus eclipfis folis a lune: a ponut talem figura. Lofidera vifta tiam coiunctiois solis a lune a capite vel a cauda vaconis in eclipsi solis: a inuenias co Accem eclipfie folia in virecto numeri vistantia fignificantie vsc. ad. 12.2 vltra. 12. no fitechofis. Sed in eclipfi lune cofidera latitudinem lune: pt patet in tabula inter alias ta bulas eclipfium superius bescripta.

Propositio trigesimatertia.

33



Enolutione cuinflibet annop mundi: vel renolutionem annop nati: vet renolutionem alicuius alterius rei babetis epozdium: viputa edificii: in uenire. (Sciendum op renolutio anni est renolutio solis ab eodem punctom eudem: vel reditus solis m eudem punctum: in quo suit in procipio illius anni. Et nota op renolutio annop mundi est introitus solis in pricipium vel primuz munum signi Arietis. Renolutio alicuius nati est renerso solis ad eudem punctu zodiaci: in quo suit nativitatis boza. Re-

uolutio amop alicuius edificij est renersio solis ad eudem locus in Zodiaco:in quo suit in pricipio sundationis:ses quando ponebatur primus lapis. (Eum igit volueris reviolutioriem annop mundu sue natiuitatis: sue alterius principi inuenire: Dabeas prio introitum solis Arietem: vel in aliquod aliud signu bene verificatu. vel radicem natiuitatis: velalterius reioriginem babetis in aliquo ano tibi noto sub certo numero vieru atiuntop: 2 secudoru quatu est possibile. Similiter scias annu incarnationis: in quo vis

scire tempus: sc3 viem 2 bozam in quo sol redibit ad eudez punctu in quo suit in illo eroz dio radicis. 22. Deinde subtrabe minozema maiozi. 2 residuii erit illud quod trasiuit ve annie ab illo erozdio. Deinde cu illie annie qui funtinter radices ? renolutione intra ta 119 bulam revolutionis annog mundi. 7 invenies in virecto in fractionibus illud quod ve bet addi. Superadde igitur illas bozas z minuta z z eqtiois bozis radicis. z qo poft ad ditionemprouenerit:si minus vigintiquatuor boris fuerit serua: qe ipse sunt bore illius viei qui ex mele pterijt. Si autem fuerint plures vigintiquatuoz bozis:tuc pro vigintiquatuoz bozis vnu viem viebus mentis superadde, z refiduum erunt boze z minuta ils lins viet que ex viebus et bozis puenerint: ? fi ann? ille fuerit bifertilis: ? tranfiuerit Se. banarius: De Diebus quas babes vnu viem amoue. 2 go remanserit: erunt vies equ. Et flamme no fuerit bifertilis: illud qo babnifti ferua: qz illi erut vies equati. Quicqdergo ex viebus: 2 bozis: 2 minutis ve mense transactis babueris: vies 2 bozas 2 minuta equa tionis nucupabis. Dis itacs peractis scias verum locum solis ad illas bozas egias. Li si eins verus locus ab illo vero loco qui erit in radice no oiscozdat: ipsa est renolutiois bo ra. Si aut maioz fuerit: vifferentia viuide per motuz folis in vna boza. 2 puenient boza feu mirusta boze: vel et sco3 q viniseris. que subtrabe ex bozis equationis. Si vo minoz eo fuerit: fimili vifferentiam viuide per motu folis in vna boza: vt pzius. z quod pzoue niet: super bozas eqtionis adde. Sie igif facies vonec boze equationis: in quibus fol ad fuum verifimu locus que in radice babuerit redierit. Dinerfitas aut ista ta op sol posto equatus fuerit no redit ad eundé locum in quo fuit: est propter motu longitudinis logio ris folis in annis qui funt inter annu radicis zannu renolutions. Si vero fol fuerit circa longitudine longiozem aut propingozem:nulla fenfibilem omerfitate inuenies. Et qua/ to magis ab bis ouobus punctis elogabit: tanto maioz oinerfitas apparebit. Deinde bo ras illas in illius viei bozas vitterfi vertas per tabulas eqtionis viez, ad quas bozas vei de constitue ascendens a ceteras comus. activito y significa superi, such luis al

Enolutionem tri gradus equinoctialis ascendentis anni si volueris per tabus las inuenire. (Esciédum o revolutio Ascendentis anni nibil aliud est qui nue nire gradu ascendenté: videl segnoctialis: 7 no 30 diaci in 2 tactu bozizontis: cu revolutio anni 7 tiurit copleta. Lum igit boc volueris. Scias pmo gradus equoctialis existente in oztu in aliquo anno tibi noto sub certo numero ab Ariete in equoctialis viga ad punctu equinoctialis qui est in oztu pcissus quo poteris: videl y radicem aliqua. 7 banc scribe ad parté. Deinde intra cu numero annop qui sunt a tempoze radicis tue viga ad illu annú cuius Ascendens queris in tabula revolutiois Ascendentiu and nozum. 7 numez graduu que in virecto inveneris 7 minutop 2 secudop 2 cadde cu radice tua. s. gradus cum gradibus: minuta cu minutis 2 c. Et si post additionem puenerint plures gradus que son remove inde. 3 60.2 residuu serua: quia est illa pars que est in oz tu in illa revolutione. Qua babita: pars 30 diaci que est in oztu invenitur per tabulas pui

mi mobilis. (. Alcentionis fignoum in regione tua: put ibi vocetur.

Radum ascendente qualibet boza inuerure. Dueres pmo locu solis quo in uento intrabis cum eo in tabula ascessorum signoz un circulo recto sub signo in quo est soli a accipies ascensione in virecto gradus solis ersite quo sacto accipies sili equatione viez in virecto illius gradus ersite pzo quolibet gradus accipiendo quatuoz munuta boze z pzo quolibet minuto quoz z boze; que adiunges bo ris alijs z munutis si quas babes z pzo quolibet poza addes, i s. gradus ascessori pdicte et pzo quolibet minuto. i s. minuta: si vo non sint boze yltra meridie tunc pzo quolib; minuto boze resultante ex illa escione viez, i s. minuta addatur ascessori. Et tuc cuilla asce

fione totali intrandüest in tabulam ascensionüsignoz in circulo obliquo ad tuü ciima et Grenda est illa ascesso qua inueta in pirecto illino in Jinea numeri betur graduo ascedeo

a fignum ascendens babetur in superiozi parte tabule.

Abito gradu ascendete vuodecim vomos celi adegre. (Scito gradu ascent dente scias ascéssones que sunt ab initioarietis vice ad gradu ascendentes in boxisote obliquo que ascessiones quere in tabula ascessom signoz in circulo re Geto 2 gradus eglis in virecto inuetus est gradus medij celi. veinde adde super casidem ascensiones ptes bozarum gradus ascendentis ouplicatas ebebis ascensionis. 11. pomus de reducad. d. edles per tabula circuli recti e. d. figni qui eje pebet est painci piñ. 1 . Domus radde itez easde partes bozarñ ouplicatas sup ascessones. 1 1. Domus r inuenies ascentiones, 12. comus de filir reducad gradus edles e gradus figni qui eis De betur est gradus. 12. Domus: Deinde itez adde partes bozaz Duplicatas sup ascessiones. 1 2. Domus 2 ingenies afcétiones gradus afcédétis quas fili reduc ad gradus egles per tabulam circuli virecti z gradus eis corridens est gradus ascèdens: veinde easdé ptes bozaz ouplicatas de. 60. minue e refidui ter adde ficut pus addidifti partes bozaruz du plicatas a per pma additione betur adus scoe pomo a p scoas adus tertie pomo a p tertia gradue cirte pomue. Anuentie aut gradibo istaz pomuu sacili babetur gradue von cipia aliaru pomuji sez per solam expone graduji:gradus,n.oppositus gradui ascenden tis est gradus septime pomus 2 gradus oppositus gradui scoe pomus gradus octave vomus. Et sic ve alis.

Enfis cum cuius polueris initium scire exmétibus renolutionis. [Aspice quot méses copleti sunt preteriti, zin tabula ingre tale numerii in regula més sium: raccipe qo inneneris in virecto tabule vier borar riractionus, r quod inneneris aduige viebus boris r fractionibus bore radicis natiuitatis aut re nolutionis anui eius, se que incipere volueris, rere evito qo erimerit inde sac méses la tinos; qr in illis est radur renolutionii. Et incipies ab eo menses in quo suit natiuitas vel renolutio. Esab illo carus a quo incepisti: r eijcias menses psectos, r qo tibi remanserit ve viebus boris r fractionibus aspice; quia in tot viebus mensis latini eru renolutio mé

sis quem postulasti.

J volueris scire gradă fignoză qui gubernat vnoquoge pie mensie întra cuz viebus copletis quos ve mensibus transluisti renolutionă tabulam additiosa vierum. 2 qo in eius virecto inneneris ve gradibus a minutis accipe. 2 adium ge illud gradibus figni cumsibet byleg mensis illus. 2 ex eo quod exierit: acci pe signa mensită: vando culibet signo. 3 o. gradus. 2 un quo gradu illius signi finierit nuv

merus que posusti: ille gradus eru gubernatoz cuiuslibet byleg.

Jaguram Echypfis Lune vepingere. (Pototrabe lineam recta: qua vinide in vuas partes eqles. 7 vna eius medietaté vinide in ptes equales ad libiti nume ro. ita tri qu'ille partes fint tot quot funt minuta in aggregato er vuod'semidia metris. 63 Lune 7 vmbre. 7 pucto in medio pdicte linee facto centro: describe circuli cuius ipse fit viameter. qui erit circulus cois vmbre 8 Lune. sup cuius circus erit centru Lune in bora initi vel fints eclipfis. Deinde ve femidiametro pdicti circuli accipe vnam pté a centro vius circus ferentia: que sit equalis semidiametro vmbre: 7 re stantime eius sit equale semidiametro Lune. Deinde supra victus entrus saccipe vnam quatitate semidiametri eius. Quos circulos qdrabis vuabus lineis supra centrus cori se secantibus ad angulos rectos. Sup quaru capita vescribe quatuor partes pund di Deinde ve fidica linea vius accipe vna parte scom quatitaté latitudinis. Lune 40



media eclipfis qua latitudine fernabis a centro in fecuda viametro versus sua parteid eft verfus meridie fi fuerit meridiana. vel verfus feptetrione fi fuerit feptetrionalis. Eo de modo facias de latitudine Lune ad initiu zad fine ecliplis Doftea onclinea paralel la piametro a loco latitudinis Lune ad initiu eclipfis versus occidete. 2 fernabis locum cotactus in circuferetia circuli cois quia ibi erit centru Lune ad initiu eclipfis. Bilr ouc alia linea paralella viametro a figno latitudinis Lune ad fine eclipfis verfus ozientez. z phi tangif circuferetia circuli cois:ibi erit centru Lune in fine eclipfis. Centru aut Lune in medio eclipfis cft in loco latitudinis Lune in viametro. Et sup buiusmodi cerri vescri be circulu fcom quantitate viametri Lune Et ficeciderit totus circulus ille Lune intra circulu vmbze:obscurabif tota Luna Siaut no totaliter ceciderit intra circulu vmbze: fedalig eine pare ita obscurabif eade pare de Luna Silr describe scom quatitate eade circulu in cotactulinee paralelle in circuferentia circuli cois verfus occidentem, a ille erit circulus Lune in principio eclipfis. Eode modo in loco cotacius linee paralelle cu circuferetia circuli cois verfus oziente fac circulu fcom eande quaritate qui erit circulus Lu ne in fine eclipfis. Et quilibet illozu ouozu circulozu lunariu: quozu centra fint fup circum feretia circuli cois:cotingit circulum vmbre. (Erempli gra:fit linea.b.d.oiuifa in ouo eglia in pucto.o.z mediates.o.d.fit vinisa intot partes egles quot fut minuta in semidia. metro lune a vmbze fimulunctis. Deinde Describe circuli; a.b.c.d. supra punctii. o scom quatitate linee.o.d. qui est circulus cois: quia cotinet totu spaciu celi i quo fit eclipsis a on cipio vica ad fine, 2 ba centru fuu in circuferentia ecliptice, Deinde femidiametru.o.d. vi tide in puaspartes i puncto.e. z fit pare e.o. equalis femidametroymbze. zalia pars fcz. e.d. fit equalis femidiametro lune. Deide fupza victu centru fcz punctu.o. vefcribe circulu fcom quatitatelinee.o.e. zfit circulus e.n.f.t.g eft circulus vinbre. Illos ouos circulos q drabis ouabo viametris fc3:a.c.z.b.d.outbogonaliter fe interfcatibus fup centru o et fit. a. Deridies b. Oziens.c. Septentrio.d. vo fit Occides. Deinde fi latitudo lue ad initiu eclipfie fuerit meridiana: accipe quatitate eius i diametro. a.o.c.ex punctro.o vius pun ctu.a. Sivo latitudo lune fuerit leptetrionalis:accipe ea ex puncto.o. versus.c. z fignu la titudinis fit f. Silr accipe latitudine ad fine eclipfis: cuius fignu fit. Le ad mediu eclipfis: cuius fignu fit s. Postea expuncto.f.ouc linea equidistante linee.o.d. versus occidente Plas ad circumferentia circuli comunis 2 puctus incidentie ipfius in circulo comuni fit punctus, k. Silr er pucto. Louc linea equidiftante linee. o.b. verfus oziente vica ad circumferentia circuli comunis. 2 fit punctus incidetie ipfins in circulo comuni.m. Deide Describe circulu lune fm quatitate semidiametri eius ses linee.e.d.in tribus locis: ses ad pricipiù eclipfis supra punctu k.ad mediu supra punctu.p. zad fine supra punctuz.m. Et tuc fi circulus supra puctu.p.ceciderit totalir itra circulu vmbze:lua obscurabit tota. Si aŭt no totalir ceciderit itra circulu vmbze:tune no obscurabit tota sa obscurabit 63 par te quitra pdictu circulu vmbze cadit. Relig vo ouo circuli lune erut cotingetes circulu vmbre i punctis.r.z.b. Et linea.k.p.m.ondet trafitu lue a pricipio eclipfis vica ad fine.z linea.b.o.d replentat ecliptică. 2 linea,f.k.ondit latitudine lune ad oncipiu eclipfis. 53 li nea.l.m.ondit latitudine lue ad fine eclipfis. z puctus.p.ondit latitudine lune ad medin eclipfis a linea.q.o.k.ondit centa tenebrar ad pricipiu eclipfis. a linea.g.o.m.ondit cen tru tenebrap ad fine eclipfis. Et foia patet i figura tua industria er ia victis opingeda. T' Igură Eclipfie Solis Depingere. O Protrabe lineă rectu, quă primo Divide

in ono equalia. Deinde vna eius medietate oiuide in partes equales ad libitu tuu. ita tri quille partes fint eqles nuero minutozu ouarus semidiametrozu soliis z lune: vel maioz eis. Deinde scom quantitate illius medietatis sic oiuise fac circulu coem: ponedo sco pedem circuni imobilem in medio illius totalis linee. z reli

aufi extendens ad eins extremitate: 2 faccirculu.quem quadra cu ouabus viametris oze thogonaliter fe fecătibus super centru.in quaz extremitatib? diuoz partes mudi oescrie be:fc3 Oziens a finiftris: 2 Occidens ad vertru: 2 Meridie fuperius: 2 Septentrionem inferius. Doftea de eade linea accipias vna parte a centro verfus circuferentia fin qua titate femidiametri folis. z refiduufit equale femidiametro lune. Deinde fuper centrum circuli cois fac vnum circulu sm quattate semidiametri solis boc mo. Done pedem cir cini imobile super centru circuli cois z extende mobile ad pur tum oiu fionis iam facte: 2 Describe circului qui erit circulus folis: 2 includitur in Dedicto circulo comuni. Deine de accipias de predicta linea diuifa vnas parte: que fit equalis latitudini lune pife ad ini tium eclipfis. Lui accipe equale ad illa parte: perfus qua fuerit latitudo lune in principio eclipfis, vt fi latitudo lune in oncipio eclipfis fuerit meridionalis: tucaccipias eas a centro circuli cois versus punctu meridiei. Si vo latitudo lune in oncipio eclipsis suerit feptetrionalis.tunc accipias ed a centro circuli cois versus punctu feptetrionis. Silr fil gurabis locu latitudinis lune ad mediu eclipfis in parte in qua fuerti illa latitudo. Et eo dem mo ad fine eclipfis. Doftea ouclinea paralella fen eddiffante viametro a figno ini tijeclipfis verfus occidente. Et nota locu contacto eius cu circuferentia circuli cois. Dei de oucalia linea paralella viametro a figno finis eclipfis ad oziente. 2 filt nota cotactus eius in circuferentia circuli cois Deinde accipias De linea Dinifa vna parte fm quatitatem femidiametri lune. 2 facias fm quâtitate eius de linee circulu lunare.cuius centrum erit stactus linee paralelle cu circuferentia circuli cois paralelle versus occidente. z ibi erit luna in pacipio eclipfis. Sili fac circulii confimile in loco cotactus alterius linee cu circuferetia circuli cois persus oziente. z ibi erit luna in fine eclipsis. Eode modo pescrie be circulu lunare sm eande quatitatem sup signu latitudinis lune vise boza visibilis co iunctionis seu medie eclipsis. 2 ille circulus oftendit quatu obscurari vebeat ve sole bo ra viunctionis vifibilis. quatuille circulus vetegeritoe circulo folis: tin obscurabif de fole. (Exepli gra. Sit linea.a.e.c. ptracta viuifa in ouo ecilia in puncto.e.cuius medietas,a.e.fit diuifa in tot partes egles quot funt miuta in aggregato ex femidiametris folis z lune fil' iunctis. Qua viterius viuide in vuas ptes in puncto. s.ita o pars.e.s. fit eglis femidiametro folis. 2 relig. fez. s.a. fitequalis femidiametro lune. Deinde beas pedem circini îmobile în puncto.e. 2 mobile extende vior in.a. 2 pefcribe circuluza, b.c.d. 63 quatitate linee.e.a. que est eglis semidiametris solis a lune sil inctis. a ille circulus est cois. 2 centrueius erit puctus. e. 2 otameter linee.a.e.c. Deinde oucaliam viametru [c3 li neam. d.e. b. interse ante pdicta viametru oztbogonalir in puncto.e. Ille ouo viametri ot nid unt predictu circulu coem in 4. punctis: ícs.a,b.c.d.in. 4. partes egles. 2 fit.a. puctus occidentis.b.meridiei.c.onentis.d.vo septetrionis. Deide sup centru.e. oescribe circulu sco3 quatitate linee.e.s. sc3 semidiametri solis: qui sit circulus. k.s.f.b. z ille erit circulus folis. Deinde scom quatitate minutoz latitudinis lune vise in incipio eclipsis accipias parte de diametro.d.e.b.ad illa parte versus qua est illa latitudo. vi fi suerit latitudo septetrionalia lune:accipe quatitate eius in predicta viametro er puncto.e. versus.d. Si vo latitudo lune fuerit meridionalis: accipe quatitate eins ex puncto.e. vins. 8. 2 figna ea per punciu. p. Lode modo figna quatitate latitudis lune in eade viametro. 2 parte eius in medio eclipfis per puctu.m. z in fine eclipfis per punctu.n. Sitigif latitudo Lune in oncipio eclipfis septetrionalis pefignata per linea.e.p.et latitudo lune in medio eclipfis meridionalis ocfignata per linea.e.m. 2 latitudo in fine echipfis filr meridiana per linea. e.n. Deinde a pucto.p. qui vefignat latitudine lune in paincipio eclipfis: ouclineam.p.q. vius occidente ad circuferentia circuli cois: 2 eqdiftante femidiametro.c.a. 2 punctus in cidentie in circulo coi fit. q. Silf a pucto,n, qui pefignat latitudine lune in fine eclipfis

ouclineă n.g. vius oziente vice ad circuferețiă circulicois eddiftate femidiametro.e.c afit punctus incidentie in circulo coi puctus.b. Deinde suppunctu.q. in circulo coi de scribe circulu fm quatitate semidiametri lune, scy linee. f.a. qui erit circulus lune in on cipio eclipfis. 2 continget circulu Solis in pucto. k. Lode modo vefcribe circulu lue fm eande quattrate sup pictu.b.qui erit circulus lune in fine eclipsis qui et cotinget circulum folis in pucto.f. Silr oeferibe circulu lune fup puctu.m.qui eft fignu latundis lune vife in medio eclipfis. Et tunc quatu de circulo lune descripto sup puctu.m. subintrabit circulu folib tin eclipiabit de supficie corporis solis. e infra ambitu istins circuli lune in cidet pare circuli folis eclipfata.f.f.b.k.l. Er bis igit patet: o pricipiu eclipfis eft in puncto.q. finis in pucto.q. 2 mediu in pucto.m. Et linea oucta a puncto.q.ad puctu.q.often dit transitu lune a pricipio eclipsis y sepad finem. vlinea. q.e. ostendit centru tenebrarus ad principius eclipfis. Et linea.e.g. oftendit centrutenebrarum ad finem eclipfis. Et bec patent in figura tua industria ex victis vepingenda.

Canon tabule longitudinis a latitudinis ciuitatum.ab occidete babitato Am bectabula atinet ve ciuitatiba i ea noiatis logitudines ab occidete babis

tato Tlatitudines ab egnoctiali linea versus septetrione. Et scito co astrolo gi accipiut ouplr occides. Uno mo accipiedo a loco extremo babitatiois extreme in occidente: zistud vocat occides babitatu. zistud vistat. 72. gradib9 2.20 minutis a civitate q e fub linea egnoctiali vistans. 90 gradibus ab oziente . 2 fm tahn. istud occides pabitatu otinet ista tabula longitudines civitatu. Alio modo accipiut oc. fo.27 cidens in loco versus occidente vistante a victa civitate Arim. 90. gradibus: 2 istud vo cant occides vez: p eo grab illo loco vice in oziente funt gradus. 1 go. qui funt media parsceli: zarimtunceff in medio vistas equaliter ab oziete zoccidete. fcza quolibet ipo rum p. 90 gradus zistud occides vezest vitra occides babitatu p. 17. gradus. 2. 30. minuta. Un fi quis vellet longitudine bar cinitatuab occidete vero: addat longitudini bic pofite: 17. gradus. 2.30. minuta. 2 refultabit longitudo ab occidente vero, 2 fi quis longitudinem predictarum ciuitatum ab oriente scire vellet: subtrabat longitudine; bic pofitam.a. 72. gradibus. 2 minutis. 30.2 qo remanebit erit longitudo ab oziente.

C Canon tabule Regionum provinciaru ac Liuitatu infignioru Europe.

Ætabula Regionų logitudinė a latitudinė locoz quozūcios: boc e viltatiam meridianoz relevatione poli ivenire. C Sciedu q vispone vuplici tabula tabul. regionu inenit. Loi.n. vilpone a fregntiea boc mo ordinata inuenit: Ut loca fo.27 omo eoznoiboscripta cernent. Deidei virecto cuiuslibet loci fiue oppidi scri bif prio ordine ei logitudo i gradibo reminutisab occidete babitato od occides bitatu Diffat ab occidete vo vitus ouetep. 1 7. g. 2.30. m. Scho aut ozdine ei latitudo icribit fimil'r i gradib aminutis: q e fui poli fup boznote elevatio. Un outatia locoz logitudinal no enifi vistatia graduali vel bozaria suoz meridianoz ab inice, etal' vistatia soli sumif aboriéteadoccidés: recouerfo. 3 vistatia locopi latitudine é ofia gradual elevatiois poli supra pozisote i vno loco ab elevatio e poli i alto e tal oistatia e soli ve polo ad po lu fupta. Un latitudo alicuroloci no ealio es eiufdem loci poli fupza bozisotem eleuatio C Scias tri qui tabula priti regionu: p qua bic opamur: scribunt post noia locoz (vt las bor reductiois cuilibetab eet) orie logitudinui boris eminutis: a meridiano toleti. Dei depoli eleuatio p grado.cu qboff opari volueris ad diuerios meridianos a meridiano. Tolen: opare vt of loco ho i pponibo. [Inalije.n. tabul region u vbilogitudo gradi b? a minutis oftat:neceffe e fi pea opari volueris:vt fupa:vt.logutudies ouon locon ab inice subtrabes: minoze. s.a maiozi. z remanés é oria i gradibo z minutis. Que veinde opeeteai loras aminuta ac.p fegnte overte: adinde cuillo opari: vt or i fuis prombo

fo. 29 (T. Er tabula aute climatif e paralelloză voi numeră polare er tabula regionți acceptă inuenies: illic in quo paralello z climate illa ciuitas fit cognosces: z vie eius longioze zo

> ¿E tabula vo ppzia quatitatis vieruz vbiuis viei cniuscum plinitatem agno. scessifi numeros in capite tabule positi elevatione poli bozealis significantes:

z in laterib extremis figna sodiaci cu ternis gradib aiaduertas. Ma illicad quanis vie fi accipias fignu z gradu Solis. z edirecto ipfins fub nuero eleva to so tionis polaris apparebit quatitas tois semidiurni in bosis a minutis suisifi foli aliono fianoz bozealium fuerit: aut quantitas tpis feminocturni fi in auftrali quovia extiterit. Ob tos feminocturnu ex. 1 2. bozis ablatu relingt quatitate tois femidiurni. Ea autem quaritate puplicata totutos biurnu coffabit. Lu at vies cu nocte fua fimul. 24. bozis co fent: fi quatitate viei er. 2 4. bozis vemas: quatitas noctis relinquet . of arado. Solino appareat i alterutro extremozu ozdinu: ofiderabis duos fuxta eu viciniozes. Ma penes fitueio ad illos proztionaliter coiectabis quantitate tpis femidiurni media quodamo interduas quatitates vieru ouobo illis viciniozibo gradibo correspodetes. Dozzo semi diurni tois quaritas indicat a boza fol occidit:fic z feminocturnu tos oztu. Solis pecla rat. Siana aut Bozealia fut y & I S & m Zuftralia vo a m I b m X

E boris equinoctialibo fine equaliboboras rodiaci fine inequales extrabere. (numeru bozaruz oztus Solis (fi bozas inequales oigrnas volueris) ab bozie post oztů lapsie subtrabe: 2 residui) fua ad parté. Deide semidiurnů p O pcedete lacceptu p fer partire: znuero quoties est quatitas boze ineglis cua vinide refiduu supra ia fuatu ad pte. z nuero puenies e boza ineglis viurna. No viffitr boză înecile nocturnă înucies: fi bozas occalus Solis ab bozis post occasus subtrabis: 2 seminocturnu p ser partiris; 2 i ceteris ages i singlis p modu pictu pe bozis piurnis.

E tabulis equatiois vieru: (Quarum in prefenti ouplices funt vescripte: Cle tus.f.g. z.m.moderna.m. z. z. boz. equation ü oier u fub fignis in capite: z in la fo.31 teribus:in directo gradus Solis cotinetes) Die diversus: requatione pierus a bota equatiois: a bota regiois iuenire. (Thic eft notadu: op oies pinerius

est integra firmameti cu additameto illio partis qua fol interea vo motu ptraffuit reno. lutio. Qui oies e oies appares: ad que co oies claudunt artificales. Dies aut mediocris fine eglis est copleta firmameti cu additameto arcus que sol interea em motu mediu o trăfiuit revolutio. Qui vies est Astronomico. Et ad buc vie vium motuu tabule sut costi tute. Un circa bec viscussio gda nullatenus e negligeda. zest: p circa bozaru acceptiões cotingit nos align decipi:no recoletes de divertitate dierus a bozaru:ad quas equant cursus planetan: 2 bozan qp inftrumeta accipiunt: ad quas qde Alcedes 2 relig bom? necno aspecto planetaz equari pcipiunt. Est eni inter eas piversitas aligni maiozaliqui minoz: a align nulla: pt alibi babet. Si queadmodu nos cauti ee bebem? i juuado nos cu bac oinersitate: bie sequetibo intelligis. Sinde boza p instrumetur aligo perbesa.o boza regióis noiaf :ad quam Elícedes relia comus equant fit coanita:ad qua invenire voluerimo va loca planetaz. Doza igi tali cognita: nos ex alterutra tabulaz egitióis oleru fub fiano i virecto gradus. Solis certitudinalir egti equatioes viez accipiemus. z illa equatione oiez: fi ea ex tabula veteri accepisti: reductă în tos bozarus p sequete ppone

(tabula eni moderna tos reductu otinet) a tpe boze cognite subtrabemus. 2 cus residuo 10.31 loca planetazi inestigabimus. 7 be boze sic examinate vocate sut boze equatiois. Si aut locus planete fit notus: ficuti locus viuntióis vel puetióis luminarius: vel viunctióis ali quoy planetay: veleon oppositiois: aut introit planete cuiuslibet i quelibet gradu signi cuiuflibet. 2 boza a boc erat vel fuerat velimus invenire Tuc bozis p adventu felle pdeuntibad loci addere pebemus equatione piez fm modus antedictus, queadmodus

Nomina oppidoz			eth	Polaree	Tlomina oppidoz	į/į	1213	nid m in	Polarce	1
10212419 1931	1	bo		181	d. [24] [4] [9] [9]	1	bo	m	31	ě
Dybernia Scotia	02.	0 0	8 48	59	2Dadeburgum Erfozdia	02.	1	40 28	51	1,77
Oronium Compostellum	O2.	0	32	53	Lips Ingelstadium	02.	1	34	51	1
Lifibona Loletum	oc.		16		Ratifpona Ratifpona	02.	-1	24	49	
Lorduba Lefarangusta	OC.	00	3	138	Clima Daga	02.	_	24		
Rhotomague 11	02.	0	41	50	Cratiflavia Eracopia	02:	2 2		511	2
Lugdunü H	02.	0	53	45	Laschoula Buda	02.	2	-	50	S les
Aunio Lolofa	02.	0	52	144	Segnia Uienna pănonie	02.	-	54	45	
Clienna prouintie	02.	0	154	1441	Patauta Saltzeburgum	02.	1	-	48	1
Dangie Dangie	02.		69750000	52	Judeburgum Cillacum	O2.	1	36	47	A 100
Bandauu Traiectum	02.	1	12	53	Birina	02.	1	15.	45	1
Lolonia agrippina 213 achlinia	02.	1	0		Ancona Boma	02.	Columbia: A	38	14	7
20 aguntia Derbipolia	02.	1	20	50	Larentum Brundufium	02.	2	8	40	T
Argentina Lonstantia	02.	1		46	neapolis 1	02.	2	Profession .	41	7
Augusta vindel. Datia	02.	1	50	58	Slozentia 2Dediolanti	02.			43	100
Suetia Lubecca	02.	1	1000	56	Benua Benua	02.	1	20	43	-
Dantifcum Dantifcum	02.	2	20	53	Sardínia Sicilia	02.	9	6	37	-

canő fo.26

Cabula longitud Tomina	Logi tudo	Lativ	Tlomina	Lõgi tudo	Lati
Sortunate infulue	g m	g m	Troning	g m	tudo
2Danna	3 0	1110	Lonftantia		gm
Lompostellum	5 0	45 0	Argentina	27 50	46 0
2 yfibona	5 0	41 0	Lbartago		47 0
Lepta	8 0	35 0	Delbionna	27 0	32 0
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Explicient canones fine ppositiones in tabulas Alfonsi: claroxi Berma noxi Joannis saxoniensis: et Joannis sucili Santritter beilbzonness.

C Errata tabule climatii

28 fectidi eft. g. 47. m. 30 fcribe. g. 27. m. 30 44 ab equinoctiali bo. 3. m. 0 corrige bo. 3. m. 15 53ab equinoctiali bo. 4 fcribe. bo. 4. m. 30

CErrata tabule quâtitatis vierti.

fub 36 gradib poli muenies m & bo.6.111.37 feribe bo.6.111.34 fub. g.polaris 45.bo.7.111.42 corrige bo.7.111.44

Errata tabule equationis vierz

in plima linea lub 5 reperies. g. 2. iii. 54 pone. iii. 52

Errata tabule couerfionie gradui in bozas

ingradibus Equatoxis reperies g. 90 bo. 6.111.20 pone 111.40 in eadem tabula Equatoxis g. 120 bo. 8.111.10 for ibe. 111.0 adbuc in tabula Equatoxis g. 240 bo. 16.111.10 pone 111.0

CErrata tabule Suerflonis Eduli in minuta 2. 2. Diep

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C Equator vierum: fine Equinoctia
o lis babet viem bosarum. 12. semp
1 cótinue. Et vnus gradus longitu2 dinis cótinet miliaria. 60.

Totim⁹ paralellus vifferés ab equis noctiali boz.o.iñ.15.babens viem maiozem boz.12.iñ.15.

Secundus paralellus vifferes ab equinoctiali boz.o. 16.30. vient ba bens maiotem boz. 12.16.30.

12

Llimatis primi principia. § .12.

13 m. 45. 2 est

44 Lertius paralellus vifferés ab equi

45 noctiali bor. o.m. 45. babens viem

matoré bor. 12. m. 45. Bradus yn⁹

16 continet miliaria. 59.

Llimatis prium medin. g. 16. m. 40
17
Et est
18 Quartus paralellus per Mercen
19 differens ab equinoctiali bor. 1 ba20 bens viem majorem bor. 13.

Llimatie secundi principiü:et finie 21 primi est. g. 20. m. 30. Et est 22 Quintne paralellus: differene ab 23 equinocifali boz. 1. m. 15. babene 24 Dien maiotem boz. 13. m. 15. 25 m. 1. Et est
26 Sertus paralesus Tropicus Lancri per Siene: visteres ab equinoctialibor. 1.m.30.babens viemaiorembor. 13.m.30. Stadus continet muliaria,57.

(l' Llimatie tertif principium: t finie 28 fecundi eft. g. 42. ft. 30. Et est Septimus paralellus: vifferensab equoctial box. 1. ft. 45. babés vie 29 maiosea box. 13. ft. 45.

Et est Llimatis tertif mediú. g. 30. m. 42. 30 Octauns paralellus p Alexandria

21 vifferés ab equinoctiali boz. 2. ba-22 bens viem maiozem boz. 14. 628/

22 dus continet miliaria, 54.

C Llimatis quarti principiü: et finis 34 tertijest g: 33 in 30. Et est 35 Norms paralellus: visserés ab eq-

noctiali boz.2:m.15. babens viem

Llimatis quarti medicieft. g. 36.

58 Decimus paralellus per Rhodum:
oifferés ab equinoctiali boz. 2. fil.
30. babés viem maiozem boz. 14.
11.30. Bzad² cótinet miliaria. 50.

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C Climatis quinti principlii: et finis

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27.30

quarti eft . A. . 19 . Hi. Etest Undecim paralellus : vifferes ab ednoctiali boz. 2.111.45. babens Die

majozem bozarů. 14. in. 45.

Llimatis quiti medium est . 3.41 Etelt Duodecimus paralellus per Belle spontu: oifferens ab equinoctiali boz. 3.m. 30. babés viem maiozé bozarii. 15.m. o. Bradus continet

42 miliaria.47:

C Llimatis serti principium: et finis 44 quint eft . g. 43 . m. 30. Etelt Tertius decumus paralellus per Bi fantium: oifferens ab equinoctiali boz. 3 .babés piem matozé boz. 1 5.

45 11.15. Climatis ferti medium est. 3.45.

box. 2. m. 15.

46 Quartusdecim' paralellus per pon mi : pifferes ab equinocriali boz. 3. m. 30.babés viem maiozé. boza-

47 rum. 15.m. 30.

C Llimatis leptimi principiu: et finis 48 fertieft.g. 47.18.15. Quintusdecim paralellus per Bo ristenen: oifferens ab equinoctiali boz. 4 .babés viem maiozé boz. 1 6.

Climaria septimi medium est . &. \$0 48.m.40.

(Llimatis octani medili est . a. 50. \$1 B.40.

Sertusdecim paralellus: Differes bortimas ab equinoctiali boz. 4. babés ouem maioze bozarti. 1 6.m. 30. Bradue.

54 miliaria, 42. cü vimidio.

C Llimationoni medium est. g. 54. cs m.i. Etelt Decimusseptimus paralellus . Differes abequinoctiali bot. s.babés 66 Diem maiozem boz. 17.

57 Decimusoctanus paralellus : vifferens ab equinoctiali boz. 5.m.20. babens piem maiozem bozarů. 17.

58 cum omidia.

Deciminano paralellus : oifferes ab equinoctialibos. 6. babéa viem maiozem bozarii. 18. Bzadus con-

tinet miliaria. 32.2 semis.

Cligetimus paralellus: Differes ab 62 equinoctiali boz. 7. 2 babet viem maiožembožarů. 1 4.

Uigesimusprimus paralellus per Thylen unfulam: vifferes ab equi notiali bozie .8. babene viem maicem boz. 20.

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680	13	19	48	49	280	2	35	22	29	680	13	15	57	29	
700	13	21	150	34	300	2	37	24	14	700	3	17	59	14	
720	3	23	52	19	320	2	139	25	59	720	13	20	0	159	
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440	1	48	32	54	40	1	8	57	30	44		1 4	17	32	130	
460	1	150	34	39	60	11	8	59	15	46		114	19	34	15	
480	1	52	36	24	80	1	11	1	0	48	0	119	1	136	10	
500	1	154	38	9	100	1	13	2	45	150	0	1/5	13	37	45	
520	1	156	139	54	120	1	15	4	30	152	0	1 5	5	39	30	
540	1	158	41	39	140	1	17	6	15	54	0	1 5		41	15	F
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580	2	2	45	9	180	11	21	9	45	58		2	1	44	45	
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19: 1

Longitudo 2 latitudo ac magnitudo fellaru firru	11111	őgi.	10.5	Diri	Lat	7	Dag	EĎ.
Longitudo e intitudo activagintudo iscular a rici a	-	-	īs	-	اقا		1	1000
Que est in extremuate vecime ale sinistre Que est sup pedem sinistrum	5	~	8	S	44	0	3 1	3 cané
Que est sup genu finistrà Untecedens ouară que sunt în pede dextro	5	18/		5	57	0	4 4	10.0
Sequens earum Nebuloia que est super genu vertrum	5		18	S	63	-	4 5	7
Que funt circa gallină: 2 non funt în fozma 2. Declinioz ouară și funt iub ala finifira ad meridie Decliniozeară ad feptentrione	2.7 March 10.00 Ma	29		S		40	200 THE	Cassa
C Stellatio Laffiepere.i.babetis palmā velibutā	CALLY 15	11111	13	1 131	(OLA)	130		Carro
Que est super caput Que est in pectoze: 2 vicil Scheder	0 0	24	58 58	S	45	20	4 3	*2
Que est veclinios ea ad lept. z est lug cingulum Que est lug sedem super ouas coras	0	177	48	S	47	50	3	40
Que est super crus	ACCOUNT OF THE PARTY.	37		S	45	30	3 4	6
Que est super extremitaté pedis Que est super adiutozi finistrum	0	18	48	S	45	20	4	\$
Que est super marsic sinistro Que est super brachiù dertru	0	1		S	150	20		20
Que est inper erectione fedis Que est in medio reclinatorii fedis		32		S	15	40	3	12
Que est in extremitate reclinatoris Getellatio Cheleub:cui' nome in latino el	_	6	148	130	15	114	6	13 Ter
Perseus: 2 est veseres caput Algol. Stella q e in renolution nebulosa: q e supertremi		0 44	14	3 3	14	0 35	4	1
Que est super spatulam vextram Que est super spatulam sinistram		0 4	9 4	200	3 3	7 30	1 4	
Que est inter ouas spatulas		04	7 4	-	-	4 30	0 4	18
Lucida q est in latere dextro: 2 dicif Alchemb Antecedens trium que sunt post e a in alio latere	10.10	05	2 2	8	S 3		0 2	*
2Dedia trium Sequens earum	ra ab	0 5	4 4	8	5 1	7 3	0	19
Que est super marfic finistrum Lucida earum que sunt in capite algol	ii in i	04	6 4	18	S	23	0	2 *12
Sequens banc Antecedens lucidam	urifit.		16		- 1	21	0	114

C	Longitudo latitudo e magnitudo stellarnm firarum.	Lógi.	Latt. 2Dag.
3	1 [0]51 [0]5[0]	8 8 1 11	g m
due \$	Antecedens banc etia: ? est secuda.	0 43 58	S 22 15 4 15 S 28 15 4 16
cano 5	Antecedens banc: zelt inper genu. Antecedens ouaru que funt in ventre core.	0 59 28	S 28 15 4 17 S 25 14 4 LD
10.9	Stella postremaearu in vnitate ventris core. Que est sup musculu cruris vertri	1 1 8	S 26 35 4 19 S 24 30 5 20
*	Que est sup calcanen oextru	0 53 18	S 18 45 5 21 S 21 40 4 22
0	Que est super genu finistrum	0 55 48	S 1951 3 23 S 1445 3 24
-	Que est super cavillam finitram Sequens banc: 2 est super extremitate finistri pedis	05118	S 12 0 3 25
	Ex eis q sequunt caput Algol: 2 no sut in forma	1031.013/0101	pripagraja suzi j
6	Que est in parte otietis ab ea que est in genu sinistro Que est in parte sept, ab ea que in genu oextro.	0 58 58	S 48 0 5 S 31 0 5
1	Antecedens que est in capite Algol. C Stellatio retinetis babenas: re Albaioz: rozagio	10 41 48	S 20 40 00
nset or S	Declinios ouaru que funt fup caput ad meridiem	1 19 38	S 30 0 4 1
	Decliuioz earu ad l'eptentrione: z est lupza caput Que est lup finistra spatula: z vicit birco: z e albaioz	111928	S 30 50 412 S 22 30 113
1	Ettech ing ibaction orders	111958	S 20 0 2 49
	Que é sup marsic vextru (com voi vingunt. Que é sup mabasin vextru: r é loco inter manu e bra	1 18 18	S 15 15 4 5 S 13 30 4 6
1	Que eft super marfic finistrum Sequens ouaru que funt sup mabasim finistrum	1 9 8	S 2040 47 S 18 0 4 0
	Antecedens earum: 2 vicif saclatent Que è sup cavillà finistra. (trionali tauri.	1 9 16	S 18 0 4 9 S 10 10 3 10
5	Que el lup cauilla vextră: z e cois ei z comu septe. Que est a pte sept ab bac in involutioe qe sup pede	1112 48	S 8 30 5 12
	Que est veclinios ad sept. rest quasi sup cora	1113 28	S 12 20 5 17 S 10 20 6 14
itur	TStellatto Afeichus: 2 est Alangue id est effeminat?: 2 est lator serpentis: 2 oicitur Serpentarius. 24	1290 91516) ni	Stop shoot A 1/4
61	Que est sup caput: 2 dicit Rasalauge Antecedens quaru que sunt sup spatula dertra	41158	S 36 0 3 1
18	Sequens earum 10	416 8	S 26 45 43
18	Antecedens duaru q funt fup spatula finistra Sequens earum	4 0 28	S 31 50 4 4
	Que eft super marsic sinistrum	3 55 28	S 34 30 4 6

Longicudo e latitudo ac magnitudo fellaru fivaru	Logi. Lati, albag.
C Toulditudo statutido acma Suturido iterra a irrai a	18/8/11/1/18/
Antecedens ouarus que funt supra palmā finistram Sequens earum	3 52 8 S 17 0 3 care 5 53 8 S 17 30 3 50.0
Que est super marfit finistrum Antecedens vuarum que sunt super palma vertra	4 13 48 5 15 0 49
Sequens earum Que est super genu dextrum	4 21 28 S 14 20 4 L 4 8 18 S 7 30 3
Que est super crus dextrum Antecedens quattuoz que sunt super pedem dextru	
5 Sequens banc Sequens etiam banc	4 11 28 5 1 30 4 4 4 4 12 8 5 0 20 4 1
Reliqua illarum quattuoz: 7 est etiam sequens Sequens banc: 7 est contingens capillam	4 12 58 5 0 45 5 17
Due est in genu sinistro Sept. triù que sunt in crure sinistro sup rectă lineă Dedia earum	3 58 48 5 5 20 5
Declinioz earum ad meridiem	3 57 48 5 3 10 5 21 3 6 48 5 1 40 5 22
Que est super cavillam finistram Lontingens concavitatem pedis finistri	3 59 28 5 0 40 5 23
Que funt circa alangue 3 non fut in form Sept.triu; q̃ funt fup lineā rectā in spatula orientali A Dedia baurum trium	4 19 8 S 28 12 4 4 19 48 S 26 20 4
Meridionalis earum Sequens tres: 2 est super medium earum	4 17 28 S 25 5 4 4 20 48 S 27 0 4
Solitaria que est veclinata ab bis ad sept. C Stellatio serpentis alangue	4 21 48 5 33 0 4
6 Que è supextremitaté maxille babétis. 4. latera: qó Lontingens nasum (est in capite	3 35 58 5 38 40 4 4 2
Que est in tempoze Que est apud oziginė colli.	3 41 28 5 35 0 3 3 4
Que est in medio babentis fituoz latera: zest in oze Egrediens a capite a parte septentrionis	3 38 28 S 37 15 4 5 3 45 18 S 24 30 4
Que est sup spondilem primă que est în collo Septentrionalis triu sequetiu ea smordine cotinuu	and the same of th
Media earum Meridionalis earum	3 41 28 S 25 20 3 9 3 43 28 S 24 0 3 W
Antecedens lucide Se quens stellaru que sunt in bac manu	3 45 48 5 16 30 4 11
Que est post coram postrema oextra a longe	1 4 10 48 5 110 30 4113

	CLongitudo e latitudo ac magnitudo stellaru ficaru	NI N	Lõg	1.15	17.5	20	III.Z	Dag.
5. <u>.</u> .	- 2018 titudo Financia	-		In			m	
	Declinioz onaru lequentin eam ad meridiem	1 4	114	18	S	1 8	130	141
canó		4	14	58	S	110	130	41
10.9	Sequens palma vertram sup fleruoficate caude	1 4		48				4 14
•	& Sequens banc luper caudam	4	25	48	S	21		411
• . •	2 D Que eft super extremitate caude		135	128	S	27	10	141
Sagitta	C Siellatio Illuic anoiaf arabice Alabance: 02 et Sagicti	3	05	139	Light	139	HIL	100
	& Solitaria que est super astulam	4		18			20	
_	Sequens trium que funt supra canna	4	153	48	S	-		161
	2 Mediam earum	4		58			150	513
	2 Dediam earum 2 Antecedens trium	4		48		139		
n . (Que eff supra extremitaté	4	50	28	S	138	145	515
Aguila	Cetellatio equile, re vultur volas 9.	#15FC.	23.65				701	
· 1	& Que est in medio capitis	4		18		126	150	1211
	Antecedens banc: zest super collum	4		58		27	10	3/2
	Lucida që sup illud qo e inter ouas spatulas:	4	50	58	S	129	10	213
	Propinqua buica parte septentrionis	4	51	48	5	130	0	3 4
•	Antecedens ouaru que sunt in spatula finistra	4	150		S	131	130	311
	Sequens earum	4	53	8	S	131	130	
	Antecedens ouaru que sunt in spatula vextra	4		48		28	40	517
	Sequens earum	-	-	8		31	30	50
	Stella que est sub aquila	4	39	18	S	136	20	1319
	Stelle circudates aquila: 2 no funt in forma. 6.			4 20	KATO A		NAME OF	
	Untecedes ouaru q funt sup caput agle a pte merd.	4	54	381	S	21	140	311
	Sequens earum gle vertra	4	55	48	S	119	10	3/2
	Que e a pte met veclinioz per sus occidete a spatula a	14	42	158	S	125	10	413
	Que est a parte meridiei ab ista	4	145	18	S	20	0	3/4
	Que est etiam peclinios ab bacadmeridiem	4	146	48	S	118	301	5/5
1 1.6	# Antecedens omnes eas	.4	38	18	S	18	10	36
Belphinus	C Stellatio Delphini 10	102 (20)	WHEN YES				177	140
	h kintecedens triu que lunt in cauda	5	4	48	S	129	291	3/1
_	Declinioz reliquarii que funt ad septentrione	5	5	48	S	29	0	4 2
	Declinioz earu ad ineridiem .cedens.	5	5	48	S	136	40	4/3
	Meridiana eap q fut i qdrilatero fili lubo lateris p	5	5	38		32	0	3/4
	Septentrionalis lateris precedentis	5	17	18	S	133	50	315
	Deridiani lateris sequentis similis rumbo	5	8	28	The State of the	132	0	3 6
	Septentrionalis lateris fequentis	5	10	38	S	132	10	3/7
	Septentrional triu q fut ieo qo e inter cauda ? rubu	5	4	38	S	24	15	60
	antecedens ouaru reliquaru teptentrionaliu	5	4	181	S	121	50	610

	- 4	4	ai.	-	1	11 11	48 15ag.	
ongitudo latitudo e magnitudo stellarum sixap.	-	on		CI	ğ		Day.	,
The first of the second of the first of the second of the	8	9 1					6 4	0
Reliqua fequens earu	31	31	01	31	21	301	-	- Cqui
C Sellatio Equi prioris.	4	1	281	CI	201	30	och	10 May 1
Antecedens ouary que funt in capite.	5	2	9	S	20	18	00/2	cano
Sequens earum	21	1 7	28	S			00	
Antecedens duarum que funt in oze.		2	48	Š	26	0	00 4	
Sequens carum (Stellatio Equi secundi alati. 20	20 101		100		2	D.P.		Pego
Que è i sumine: 2 é côis et 2 capiti mtieris cathenate.	ol	4	168	IS	26	0	211	0
Que est suprenes: 2 est ea q est in extremitate ale	5	59	18	S	12	30	20	
One of Suphumeru Dertru: zest sup radice manus	5	43	18	S	131	0	2/1	
One est inter ouas spatulas zinter spatulam ale	5	43	48	S	119	40	214	-
Derlinioz onaru que funt in latere lub ala ad lept.	5	51	38	IS	25	30	45	-
Declinioz earu ad meridie	5	52	1 8	15	125	0	46	
Declinioz earu a funt in genu oextro ad feptentrional	5	46	8	S	35	0	37	0
Declinioz ouaru ad meridiem	. 5	45	38	S	34	30	56	2
Antecedens ouaru propinquaru q funt in pectore	5	43	18		29	0	4 5	0
Sequens earum	5	44	8	S	29	-	1115	-
Drecedens ouaru propinquaru que funt in collo	- 1	45	58	S	18	00	1 1	
Sequens earum	5	37	138		119			2
Declinios quaru que finit iup iubas ad meridie	5	38	28		16	0 0	1,25	4
Declinioz earum ad septentrionalis	33.	7.1			16	1	-	5
Septentrionalis ouaru contunctaru q funt in pectoze	3	26	28	S	16	50		6
Declinioz earu ad meridiem	5	22	1 0	30.00	121	130		7
Que est in muscida Que est in cavilla vertra	- 3	40	48		41	10		n
Que est super genn sinustrum	5	14	48	10530	134	2242		9
The state of the s		29	28		136	130	4	20
	23	IZ Y	*****	Trees.	- Con	ilvai	3.3	Ana
C. L.		12	128	IS	124	130	31	- 10
Que est inter ouas ipatulas Que est in ipatula oettra			28		127	0		2
Que est in spatula sinistra	10		128		122	10	141	3
Meridiana trium que est super adiutoziñ Dextru			48		32	10		e
Septentrionalis earum	10		148		133	130	14	
20 edia trium	0	12	1 8	S	13.2	120	5	6
Deridional triu q fut fup extremitate spatule oex.	10		148	315	4	1	4	7
2Dedia earum	10	1 7	48	3 5	142	2 0	1 4	5
Septentrionalistrium	10	1 9	1 1	315	14.	4 6	1 4	9

	L'Aongitudo a latitudo ac magnitudo fellarum fixap.	E I	Lon	gı.	10	La	ां. धा	Sage
	1 10 4 1 5 10 1 4 1 6 1	18	ğ	m	1	Iğ	in	1
	" Que est iuper adiutozium finistrum	10	111	118	S	17	130	4
tano	A One of finner enhitem finiftrum	0	12	48	S	16	50	3
10.9	2Deridionalis trium queeft fuper mirat		-	158	-			21
	2 Media earum			58			1000	2
Arre .	Septentrionalis trium 300 Ht and 9		7	-			1	7.3
2	Ongol (approved in Griffman of Alamas	10	19	58	5	32		3
	Que eft luper pedem finistrum: 2 est alamac	10	133			23		3
2.1-1	Que est in pede vertro	0		118		37	20	4
	Que è oecliuios bacad meridiem. (finistro ad septe.	10	32	18	S	135	40	4
1 2	Declimozearus q funt fup occultă pte inferiozi genu	10	129	128	IS	129	10	4
	Declinios eosum ad meridiem		29		S	28	0	4
7	Que eft fuper geng oertrum	10	29	18	2	100	120	
4	Septentrionalis ouaru q funt fup extremitate adbil	200	-	48	Ö	23	30	- 7
	Declinioz earum ad meridiem					154	130	21
4	& Egrediens precedens tres que funt in palma vextra	0	31	18	5	32	30	. 5
inn. 1.	2 28 concris precedens tres que funt in patina oextra	10	28	148	2	144	0	3
rangula	CStellatiotrianguli. 4.	13111	120 S	174,52		THE STATE OF	Finel	
0	The est super caput trianguli	0	28	1 8	S	116	130	31
45-4	Antecedens trium que funt super basim eius	10	33	8	S	20	10	2
		Del Perin	17000	Section 1	attile 2	-	10000	
× 11	2Dedia earum	10	2.2	18	5	110	10	4
\$ 15 mm	Sequens trium Commes ergo stelle que sunt in parte septentrionali su tudine prima sunt. 3. in secunda 18. in tertia 81, in qua	0	33 33 60.0	158	Sugi	19	o agni	4 3
4 4 4	Sequens trium (Omnes ergo stelle que sunt in parte septentrionali su tudine paima sunt. 3. in secunda 18. in tertia 81. in qua sexta 13 ex nebulosis. 1. ex occultis. 9.	nt 3	33 60.0	158	S	19	o	3
lvies	Sequens trium (Domnes ergo stelle que sunt in parte septentrionali su tudine prima sunt. 3. in secunda 18. in tertia 81, in qua sexta 13 ex nebulosis. 1. ex occultis. 9. (Stellationes in cingulo orbis signor: sine in sexta 19.	nt 3 irta	33 60.0	158	S	19	o	4 3
lvies	Sequens trium (Domnes ergo stelle que sunt in parte septentrionali su tudine prima sunt. 3. in secunda 18. in tertia 81. in qua sexta 13 ex nebulosis. 1. ex occultis. 9. (Stellationes in cingulo orbis signor: sine in setellation. Arietis.	nt 3 irta iodía	33 60.0 177 aco.	quar quar ,in c	S	19	o	3
100	Sequens trium (Domnes ergo stelle que sunt in parte septentrionali su tudine prima sunt. 3. in secunda 18. in tertia 81. in qua sexta 13 ex nebulosis. 1. ex occultis. 9. (Stellationes in cingulo orbis signop: sine in Stellatio. Arietis. 5 2 Antecedens quarum que sunt in cornu arietis	nt 3 irta sodia	33 60.0 177 300.	quar quar in (S Tugi Quin	n minta s	o agni 8.ir	3
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C Que funt circa geminos: 2 non funt in fozi		151	7	IVI	10	401	4
Ans id qo e in anteriozi pte pedis gemi antecedetis		121	118	M	10	40	141
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Declinioz barum buarum ad meridiem	1 58 28	010 4 9
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Que est super palma precedente simistra	2 26 18	114 4 16
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	Septentrional earu: 2 Dicit predes vindemiatore by Que é si palma sinistra: 2 é iermis asimec: 202 Spica	3		18	S	15	10	3	13 *14
3	Que est sub cingulo z in sumitate natis dextre Sept.lateris ancedetis ädrilateri gei cora finistra	3	11	158	MS	8 2	10	3	16
	Meridionalis lateris antecedentis Declinioz onaru qunt in latere sequete ad sept.	3	114	8	4117	0	30	6	17
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Que est in medio lancis meridionalis	1 3	41	8	TELLI)	1	40	416
Antecedens banc : zest super banc lancem	3	38	28	100	1	15	46
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postremu e. Amsol et fant de tribel	3	56	28			10	5	
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Que est in spondili pzima corporis	4	5	38	111	11	0		12
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Que est post istam in spondili quinta	4	15	181	of stall	A. J. Carlot	50	3	17
Que sequitur eam in spondili serta	4	17	38	MAP.	16	40	3	10
Que est in spondili septima propinqua spine	4	16	8	a Uni	15	10	3	19
Sequens ouaru que funt in spina	4	14	38	10110	13	20	3	2
antecedens ouarum	4	14	8	M	113	30	4	n
Ctelle q funt circa Scozpione: 2 non fut in forma	OIDITE		Ditt.	oile	3	d Its	550	-
Tebulofa feguens foinam	4	18	18	DESIG	13	15	ne.	
Antecedens onarum septentrionaliu a spina	4		38	ota	6	10	5	
the state of the s	14	16	138	(E) 28	4	10	5	
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Dane en super hastulam sagitte. 2 sub isto quidam volum	it effe	ver	illun	n fut)111	1000	3115	1
ventre fagittarij	14	21	38	0.0	16	30	3	1
# & Que est in manubaio manus finistre	4	24	48	12753	6	30	3	12
One of in large meridiano abarcu		25	1 8	M (3)	110	50	3	3
Declinios onaru q füt i latere fept. ab arcu ad meridie	4	440.044	8	M	1	30	3	120
Declinior earnad fept. zeft lup extremitate arcus	14	122	148	IS	2	50	4	15
Que est super spatulam sinistram	4		28	M	3	50	4	6
Untecedens banc: vest super sagittam	14	130	1	EHETT	1 3	50	4	17
o d'Nebulosa oupler que est super oculum	4	32		C 1373	0	45	ne.	10
Antecedens trium que funt in capite	14	122	148	dist	1 2	10	4	10
EDedia earum	4	124	48	77.81	11	30	4	VO
Cipcons cut uns	14	136	-	1 30	1 2	10	4	146
Sequene trium	4	38	28	Section 1	2	50	5	In
my considerable thin a little in alacen length in in it	COPPE N				1 4	130	1 4	149
ADeridionalie triu q funt in Stactu septetrionali	4	1120	1120	A SECTION AS	18 12 -2 -2	130	0.0000	
Deridionalis triu quint in Stactu repretrionau Dedia earum Septentrionalis trium	4	130	1 58	3	6			114

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Longitudo a latitudo ac magnitudo stellaris fixaris	Logi.	Latt. 21.
A CONTRACTOR OF THE PROPERTY O	8 8 m 4 4 6 3 8 S	18 ml
Septetrionalis ouară o lut lup cotactă meridiană Declinioz earum ad meridiem	4 46 38 S 4 44 48 N	
Que est super spatulam vertram	4 39 28 4 4 1 58	2 50 5
Que est inter ouas ipatulas triu q sunt in ootlo Media earum que est super spatulam	4 37 8 4 34 48	2 30 5
Reliqua: 2 est sub asella Que est sup cavilla sinistra sup antecedena ipsius	4 3 3 2 8 4 3 4 4 8	23 0 2
Que est super bunc pedem Que est super antecedenté caville vextre	4 34 8 M 4 23 48	18 0 2
Que est super spatulam finisiram Que est in postremo brachij vertri	4 44 28 4 43 48	13 30 3
Ameredes lateris lept. Stuoz q lut in radice caude Sequens lateris leptentrionalis	4 45 58	450 5
Antecedens lateris meridionalis Sequens lateris meridionalis	4 45 38 4 46 48 N	5 50 5
EStellatio Lapricomi 28	mains number	anticorden;
Sept, trium que funt in cornu l'equête Media earum	4 54 28 N	3 20 3
ADeridionalis trium 3lla que est sup extremitate comunitecedentis	4 54 28 4 56 8	8 0 6
Antecedens duarum reliquarum	4 56 8	0 45 6
Sequens earum Antecedens triu q funt sub oculo vertro	4 55 58 4 54 18	1 30 6
Declinioz ouaruqunt in cernice ad fept. Declinioz earum ad meridiem	4 58 48 M	4 50 6
Que est sub genu oextro Que est sub genu sinistro curuato	4 57 58 48	8 40 4
Queest sub spatula sinistra Antecedens onaru consunctaru	5 3 48	7 40 4
Sequens earum Sequens trium	5 7 28	6 0 5
Deridionalis ouaru reliquaruantecedentiu Septentrionalis earum	5 3 48	4 0 5
Zintecedens ouarum que sunt in voiso Sequens earum	5 3 48 M	0 0 4

Longitudo e latitudo ac magnitudo stellar i fixar i	LINES	10	gí.	THE L	La	14.1	20	1g.
	18		m		g	m		5
Antecedens ouarum que funt in spina meridionali	5	10	28	S	4	15	4	2
Sequens earum Antecedeus ouaru que l'unt in radice caude : 2 oicif) Seguens earum (Denebalchedi	5	11	28	付的	2 2	100	3	* A
Sequens earum (Benedalchedt Antecedens atmos a füt ing lat leptentrionale caude ADeridionalis trium reliquarum	5	13	58	fis t	5	0	5	26
Media earum Septentrionalis earu: 2 est sup extremitate caude	5	14	48	S	4	20	5	20
C Stellatio Aquarij 42	16	of the	I Sall				u(2	
Que est sup caput aquarif Luminosios puraris que sunt in spatula vertra	5	23	28	5	11	45	3	2
Occultionea que est sub ea: 2 est minº ea luminosa Que est in spatula finistra	5	13	18		8	40 50	5 2	4
Que est sub ea in posso quasi sit sub a sella Seques trium que sunt i manu sinistra supra pănu	5	14	28 48		6	30	3	6
2Dedia earum Antecedeno barum trium	5	3	18	S	8	11/1/27	1 4	0
Que est in brachio vertro Septentrionalis triu q sunt sup extremitate manus	5	26	38	AND P	10	45	3	10
Antecedens ouarum reliquaru meridionaliu	15	29	28	i uili egyis	8	30	3	11
Ans ouară diactară q lunt în pixide spatule vextre Sequens earum	5	23	18	S	3	10	4 5	13
Que est in ancha Dertra leu vertebro Dertro Declinior Duarum q funt in ancha finistra ad meridie	15	2 9	48	M	10	150	10000	16
Declinioz earum ad septêtrione Declinioz onarum quant in crure vertro ad meridie	5	28	18		1 4	30	3	17
Decliniozearum ad lept. in inferiozi ventris coxe Que est in postremo coxe sinistre	15	28	128		5	40	4	20
Declinioz ouarum q funt in coxa finistra ad meridie Declinioz earum ad septentrione: z est sub genu	5	24	148	MS	10	00	5	21
Prima stellap q sunt apud sussone aque latto Que segt ea: ze a parte meridiei ab ea cui pcessit re-	15	31	8	SM	0	10	4	23
Que sequif bac post tormostrate enacuatiois aque Sequens banc etiam	5	34	48	leid.	0	30	4	26
Que est in toxuositate aq meridiana ab bac Septetrionalis onarum q sunt a pte meridionali ab es	5	37	128	M	10	40	4	

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Longitudo latitudo a magnitudo fiellaru firaru	Zogi.	Lati. 203ag.
1 (0.12) (0.12)	8 8 111	g m
Decliuioz ouarum ad meridië	5 36 38 N	
Sola longiozearum ad meridiem	5 39 3	1815 5 30
Antecedens vuară viúctară que funt post eam	5 40 48	12 0 5 31
Sequene earum	5 40 18	10/50/5/72
Septentrionalis triuq funt i tottuofitate aque leque	5 38 48	14 0 5 33
Media trium (te eas	5 39 48	14 45 5 782
Sequene trium	5 40 18 N	THE RESERVE AND ADDRESS OF THE PARTY OF THE
Sept. triuq funt post istas scom illud ereplu	5 34 28	114 10 417
2Dedia earum	5 34 38	115 0 4 37
Decliniostrium ad meridiem	5 35 28	115 45 4 78
Antecedens triù que funt in tottuofitate reliqua	5 28 58	1450 4 39
Untecedens ouarum reliquarum ad meridiem	5 29 481	15 20 4 40
Declinioz earum ad septentrione	5 30 18 N	
Postremum fusionis aque: zest super os piscis meridic	onalis: 7 diciti	Charles Committee and Committe
Somabant		23 0 11 * 4
CStelle que sunt circa a quariu: 2 no sunt in forma.	3 1	the appropriate of
Antecedeno triu lequetiu tortuofitate aque	5 43 48 N	
Declinioz ouarum reliquaru ad sept.	5 46 48	14 20 4
Decliutoz earum ad meridiem	5 46 8 M	118 15 4
CStelle Pesciam 34		19.00
Que est in oze piscis antecedentis	5 38 48 5	915 41
Declinioz earum que funt in pertice eius ad meridie	5 41 18	7 30 412
Antecedens ouarum que funt in Dozlo	5 45 18	9 30 4 3
Decliuioz earum ad septentrione	5 43 8 S	19/20/4/4
Sequés earum	5 47 48	730 45
Antecedens ouarum que funt in ventre	5 43 8	430 4 6
Sequens earum	5 46 48	2 30 4 7
Que est in cauda buius piscis	5 54 8	6 20 4 0
Dama stellarum que sunt in cauda	5 58 8	5 45 6 2
Sequens earum	0 0 8	2 45 6 10
Antecedens trium lucidarum que fut post eas	0 4 18 5	1 2 15 4 15
2Dedia earum	0 7 38 M	110 412
Sequens trium	010 8	1 1 20 4 13
Sept. duaru paruaru q funt sub eis in reflexione	0 9 28	20614
Declinioz earum ad meridiem	010 81	15 0 6 4
Antecedens trium que funt post reflextione	014 8	2 20 4 15
Media earum	10/15/48 M	1 4 40 4117

C	Longitudo 2 latitudo ac magnitudo ftellaru fixaru	Logi. Lati. Mag
H		8 3 1 3 1
	Sequens trium	0 17 48 S 7 45 4
3	Que sunt super nodum ouoz filoz	0 19 38 8 30 3 4
T	Antecedes sup nodum tozcularis septentrionalis	0 17 38 - 5 20 4
3	Deridionalis trium continuaru que sunt post eam	0 17 18 155 5
4	2Deridia earum	0 17 28 0 20 3
4	Septentrionalis trium : zest sup extremitate caude	0 17 38 9 0 4
- 1	Declinioz onaru q lunt in oze pilcis lequetis ad lept. Deridionalis earum	0 19 8 27 45 5
6,	Sequens trium paruarum que funt in capite Media earum	0 1 5 48 20 0 6
1.00	Anteredene frimm	10114 8 5 23 0 6
paru	Antecedens trium que funt sup spina meridiana; que est	super vorium post.
=	'illam q est sup cubitu mulieris : q noiat Andromeda	0 12 48 5 14 20 4
-	2)Dedia earum	0 13 28 13 9 4
170	Sequens istarum trium	0 14 48 12 0 4
	Declinioz onarum que funt in ventre ad fept.	0 19 18 17 0 4
	Decliuioz earum ad meridiem	0 16 28 19 20 4
2	Que est in spina sequete q est propinq caude	0 17 8 S 11 45 4
*	C Que funt in circuitu pisciū: 2 no fūt in forma.	4 h half of the heart of the transfer of
	Antecedens ouarum sequetifi ad septentrione quadrile	iteri quod est sub
	pisce antecedente	1 5 48 18 M 2 40 4
	Sequens carum and the Allert to the publication	5 49 23 2 30 4
	Antecedens lateris meridionalis	5 47 48 3 50 4
	Sequens lateris meridionalis	5 49 28 M 3 50 4
	C Des ftelle existentes in cingulo fignox funt. 3 46 Qui	
	prima funt, 5.2 in fecuda. 9.2 in tertia. 64 In quarta. In fexta. 27. Ex ne bulofis tres	1 3 3.311 quinta . 1 0 5 .
		THE PARTY STREET, TRACKS AND STREET
	CStellationes Sozmarum Weridionaliû.	IN ARREST COLUMN TO THE HORSE THE STATE OF
bus	CStellatio Leti que est animal marinu	22 % - then the hone
	Que est sup extremitate naris	03448 M 745 41
	Sequens trium que funt in muscida super extremitate	mandibule: 20ici
	tur menkar	0[34 48] M 12 20 3
	Media earum : zest in medio ozis	1 0 2 9 4 9 1 1 1 20 27
	Media earum : zest in medio oxis	
	Antecedens trium : 2 eft fuper grumiu	0 27 38 14 0 3
	Antecedens trium : 2 est super grumiù Que est sup supercisium 2 oculum	0 27 38 14 0 3
	Antecedens trium: 2 est super grumiù Que est sup supercilium 2 oculum Que est vecliui02 bac ad sept. 2 qsi sit sup capillo s	0 27 38 14 0 3 0 27 18 8 10 4 0 29 48 6 20 4
	Antecedens trium : 2 est super grumiù Que est sup supercisium 2 oculum	0 27 38 14 0 3

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CT	ongitudo e latitudo ac magnitudo fiellaru fixarum.	7	LÓE	ji.		C-COMMO	100 P. P. St 100	S	ag.
		8		tis			m	1	
TE L	Octava post eam in septemerione	11	2	28	M		20	3	7
	Reliona et nouem vitana a mer idie	1	3	28			30	_3!	24
2	Antecedens trium que tunt tuper cingulum	1		28			10		*
7	ODedia earum	-	100	28	ST II	-	50	-	7
5	Sequens illarum triu	- 1		18			40	2	2
	Que est apud capulum ensis	1	-	58	STOW		50	3	2
17.	Septentrionalis triù cotinuaru cu capite enfis	1		58			40	4	3
	Media earum	1	13	48		29	40	3	34
2 7	Meridionalis trium	1	14	8	1	100	50	2007-2	30
	Sequens onaru que sunt supertremitate enfis		14	48	8.0		40		31
30.	Autecedeus earum	1		18			10	4	.,
	Lucida que est in pede finistro : 2 est comunis ei 2 aque : 2	Olci	tur	Ally	M	1	1+01		3
1	Nominat etiam Rigel		0	0	IVI	31	30	4	*
	Que est sup veclinioze ea ad sept. 2 est sup calcaneu		0	128	111111	130	110		7
	Que est lup calcaneum finistrum exterius		10		RA	31	10		3
To 1	Que est sup genu dextrum septentrionale	1	200	110			130	1 3	130
anus	C Stellatio flumind eft Eridanus fine Byon fine Ti	Haa	•	-1-6	100 3043	4	100	qo ji	
T5 !	Queest post illa q'e i pede sublimati si pricipiu flumis	1 1	1 3	1124	2000	31	150		
	Que est declinios bac ad septentrione. Test in tostuofitate	apu	acc	omp	M	100	11	W D	-
2 6000	dente crus sublimati		3	100	IAI	20	50	4	1
1.00	Sequens duarum otinuary que funt post banc	-	1 '	148	100		-	4/	13
	Antecedeus earum			18	Die	28	499.00	4	14
	Sequens etiam quarum continuarū	-	-		754	1- /	-	-	12
	Antecedens earum	0 0	57	18		25	75000	1000	6
	Sequeus trium que sant post istam	0	7 2	-	Access to	127		1000	0
	ADedia earum Antecedens trium	0	52	1	1914	27	400	4	19
		Daniel .	-	1 4		1	-	13	110
D	Sequens quatruoz que funt post istud spacium Antecdens banc		44			32	0	1 4	100
	Antecedens etiam banc	1000		118			150	-	110
	Antecedens quartuoz	100	20	1.8		28	0		1
-	Seques illud scoz exeplu attuoz a sur post illo spacium		-	118	-	126	5.000	1 0	11
	Zintecedens bane	ACCUSES.	31			23	30		
0	Zintecedens etiam banc		100	100	100	1-0		-	
	Antecedens bas quattuoz (noiati Letus			138		2	10	3	1.
	Que est in reversione flumis: 2 é côtinges pectus aialis	10				14:	11.	1-4	-
	Bequens banc 2 dicit Angetenar			18			100		1
-100							150		13
	Antecedens trium que funt post illam	1 0	125	158	LVI	136	130	4 44	-

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$\overline{\mathbb{C}}$	Longitudo e latitudo ac magnitudo fellarum firarun	8 1	4 1	m	1	Iğ			100
Tature	Media earum Sequens triū (obliquatione	013	0	58	-	138	110	4	
are	Sept.a latere añcedete ädrilateri relig op é quali i	03	8		M		130		123
5	Antecedens lateris lequentis Seguens earum: z est reliqua quatuoz	04	1	18	M	-	20	4	a cand
	Sept. ouap distars sequentis versus oziente Declinioz earum ad meridiem	05	2	8	C. E. S. W. C. S.	51		4	20
	Decli. onap q sur post illas: que noial latine beemim Antecedens ear um		2	58	M	53	10	4	90
	Seques triñ que funt in spacio qo est post illud 20 edia earum		1	58	M	-	30	4	32
2	Antecedens trium Lucida que est in postremo flumis:202 Acarnar	0 2	8 7	18	M	53	30	4	*34
1	CStellatio Lepozis.	Cit res			7.0		CONT.		1
5	Sept.lateris añcedetis quadrilateri qò e sup aure Deridionalis lateris antecedentis	1			M	35	30	5	2
STATE OF	Sep. sequentis lateris Deridionalis lateris sequentis	1	8 2	8	M	-	40	5	24
9	Que est in mandibula Que est in extremitate pedis sinistri anteriozis	1	3	8	M	45	15	4	8
	Que est in medio corporis	1 1	1	38	M	44	-	3	5
30	Decli. onap q sunt i onobo pedibo postremis ad sep. Declinioz earum ad meridiem	4 1	6			120 C 100 N	50	4	20
Ž.	Que est sup vorsum Que est super extremitaté caude		8/4	18	M	38	10	4	12
	CStellatio Lanis maioris: 2 Dicit Lanis Syrius		18	-				- 1	- Car
200	Que è in oze: 7 è in yltimitate lumis: 7 o canis: 7 è a Que è super ouas aures (schere aliemeni albaboz	13	6 -	18	M	35	0	4	* Cas
	Que est sup caput Septentrionalis ouary que sunt in collo	1 4	0 1	18	M	37	45	4	4
	Aderidionalis earum Que est sup pectus	1 3	7 3	8	M	40	40	4 5	6
20. 7.55	Septentrionalis ouarum que funt sup genu oextru Declinioz earum ad meridiem	1 3	3	8		41 42		5	70
>	Que est super extremitate pedis anterioris Antecedens duarum que sunt in genu finistro	1 28			M	41		3	20

Longitudo 2 latitudo ac mgnitudo stellarů sixarů	ina/	26	31.	17076	La		200
Congitudo Cultudo de ingi-	18	g	m !		g		_ 1
Gaguera carrier	11	133	118	M	145	50	51
Sequens cuaru que funt super spatulam finistra	11	41	48	133	47		41
Sequens out in que tune taper i paramerra.	ii	118	48	olin.	47	0	5 h
Antecedens earthn Que est in orgine core finistre	li	43	18		48	45	3 1
Que eft sub vetre in loco gest inter ouas coxas	1	140	48	HE	51		3 1
Que est super concauitate pedis dexiri	1	40		dustr	55		41
One est super extremitate bui pedis	1	120	18	ВЛ		45	3
One est super extremitate caude	1	119	18	IVI	150	40	26
CStelle q funt circa cane: 2 no funt in forma	2	041)	125	1107	p and	0.1	
Que of smarre fen in wertice capitie	11	130	138	M	125	15	4
Longioz quattuoz que funt sup resta linea sub ouobus	ped	bus	poff	rem	3	計劃	
in meridie	Ti	127	10	IVI	61	30	4
Que est peclinios ad septentrione	1	128	128	111	154	45	4
Que est occimios etiá bac ad septentrione		130	- Commercial		157	10	4
Reliäätuoz 2 est longioz earū ad septentrionē		3			156	0	4
Peng quade ven longiot en and representatione	1	-	-		155	130	4
Antecedes triu quit qui fup linea recia eo qo fequit.	do			E 12 12	157	40.0	
	-	10000000000	28			30	
Sequens trium					59		20.20
Sequens ouaru lucidaru q funt sub istis tribus	+		1 8	1	-	40	-
Antecedens Duarum	1	1	A Company		1		4
Reliqua ze Declinioz ea qe ante ipsa; ad meridies	1	1	118	1 141	137	1,0	2000
C Stellatio Lanis minozis antecedetis vel canicule		2	-	1 8 8	1	1930	1 1
Que est in collario		14	218	IV	114	0	4
Alaomería	Alc	ber 1/4	6 1	B N	lieet	110	11
CStellatio nauis: 2 victe Argus 45	18100			Service.	A 370	2 230	200
Antecedens ouaru q funt sup extremitate nauis		1 5	7 28	31.12.550.5	42		1
Geonong eartith		2	1/28			20	1 31
Decli, 2. Diuctaru q fut lup icutu qo eft in latere ad lep.	1	155			145		4
Declinioz earu ad meridiem	11	155	and the second		146	-	-
Zineacedong has buss		15	2 28			130	4
Incida q est in medio scuti: 2 vicis markeb		1 5	3 28	1224	147	15	
and the series and that the tallo		1/5	2 2 8	3	49	130	4
Seques earum		1 5	6 28	31_	Williams.	130	March 1
media trium		1 5	5 38		ACCOMMONS OF	15	1000
One off in postremo cautel		2	1 8			150	
Gent puaru o funt in gubernaculo apud cautel		1 5	1 8			150	
Declinioz earum ad meridiem		15	1 8			40	
Septentrionalis ouaru q funt in fricto cautel	1	115	7 11	BIM	155	130	5

					7.9		
Longitudo 2 latitudo acmagnitudo stellaru fixaru.		10	gi.		Lati		M.
	18		m		1 g		
Antecedens trium sequentium banc Dedia earum	1 2	1.	28	M	58		5
Sequens eartin	2	8	138	1/2	57	20	4 2
Antecedens Duarum Occultarum quant lub lucida	2 2	18	18	201	59	-	5
Antecedes ouarum q funt sup lucida qua vicimus	2 2	10	18		56	40	5
Sept. triù q funt in scutell' quasi fint supra costatu: 7 e Media earum (locus mali	2 2	22	18	nki i	51		4
Meridionalis trium Decliuioz vuară viūctară q funt fub illa ad fept.	2 2	4	18	(aJ a	57	0	4
Declinioz earum ad meridiem Declinioz onarum quant in medio antêne ad meridie	2 2	100000	18	M	51	15	4
Declinioz earum ad septentrionem Antecedes ouar û q sunt apud extremitatem antêne	2 2	100	28	11 45	49	20	4
Sequens earum Que est sub tribus scutellis sequentibus	2 2	16	18	er 1/2 er 1/2	43	30	4 2
Que est super sectorem transfri Que è in eo qò è int onos temones in ligno sup quo è	1 2	34	38		63	15	2 4
Occulta lequens banc (fabricator nauís Lucida lequens banc lub transtro	2 2	16	8		64		6
Lucida meridional ab ista: 2 é sup lignú fricationis Antecedés trium sequentiú banc (nauis	2 2	2012/03/20	38	alla		40	2
2Dedia earum (12) Sequens trium	2 2	138	33	in si	65	50	3 2
Ans quaru lequetiu bas tres apud lectione traftri Sequens barum quarum	2 2	148	18	10 10	62	50	3
Antecedens ouary que funt in remo septétrionali Sequens earum		19	18	M	65	55	4
Antecedens ouarum que funt in remo lequête : 2 o	citur						5.7
bel ponderofus		134	11.50		69	0	1
Reliqua sequens earum (Stellatio Dydre. 2 noiat Asuia 27		140	1 8	M	61	50	13
Declinioz onarum antecedentin er quince que funt in	capite	adı	neri	diem	:		100
2 quan luper narem Declinioz earû ad fept, 2 est in medio capitis	2 2	1 2	28	30 (1)	115	30	4
Declinioz onarum sequentium eas ad septentrionem e	t quaf	ifit	1001	6.4		201	-
Super verticem	1 2	1 2	38	M	111	301	4

Clongitudo a latitudo ac monitudo stellarú sixarú	Image.	Log	Ţ1.	onto	La	NO ALCOHOL:	21.	ag
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Sequens earum Sequens ouaru que funt super spatulam finistra	11	41	48	133	47	0	4	17
Antecedens earth	11	18	48	din i	47		5	13
Que est in orgine core finistre	11	43	48	rf II	-	45	3	4
Que est super concaustate pedis vertri	1	40	-	irrea Itotir	55	10	4	11
Que est super extremitaté bui ² pedis One est super extremitaté caude	1	19	18	M		45	3	L
CStelle quant circa cané: 2 no tunt in toama	2		(B)	10)	1114	HO!		
One oft anarre fen in vertice capitis	11	36	138	M	125	15	4	1
Longioz quattuoz que lunt sup resta linea sub ouobus	pedil	ous	post	remi	3		330	
in meridie	Ti	27	18	M	61	130	4	1
Que est oecliniozad septentrione	1	28	28		154	1	4	
Que est occinios etiá bac ad septentrione		30	18	11/11	157	10	4	2
Religituoz est longioz earu ad septentrione	1	31	18		156	0	4	1
Antecedes triú quit qui lup linea recta eo qo tequit,	11	145	18	100	155	130	4	1
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Sequens trium	1 1	119	28	58 81	159	130	4	
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Declinioz earu ad meridiem	11	55	158	-	146		4	14
Antecedens bas ouas	1)	# DEC 2072	28			30		13
Incida q est in medio scuti: 2 vicit markeb	1	53		1		15	1000	13
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Media trium Que est in postremo cautel	1 2	55	38	1010	49	150	4	N
Sept. vuaru q funt in gubernaculo apud cautel Declinioz earum ad meridiem	Ti	51	8	1		150		1
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Longitudo 2 latitudo acmagnitudo stellaru fixaru.		1 ŏ			Lai		n
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Antecedens trium sequentium banc 2Dedia earum	1 2	0	1	M	57	15	4
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Antecedens ouarum occultarum q lunt lub lucida Georgia earum	2 2	8	18	320 17	59	20	5
Antecedes ouarum q funt sup lucida qua oicimus	2 2	10	28		56	40	5
Sept. triù q funt in scutell'quafi fint supra costatu: ? è. Media earum (locus mali	2 2	22		118.1		30	4
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Declinioz earum ad meridiem Declinioz vuarum q funt in medio antene ad meridie	2 2	26	18	M	51	30	4
Declinioz earum ad septentrionem Zintecedes onarů q sunt apud extremitatem antène	2 2	16	28	12 40	49	20	4
Gequens earum Que est sub tribiss scutellis sequentibus	2 2	16	18	90 10	143	30	
Que est super sectorem transtri Que è in eo qò è in è onos temones in signo sup quo è-	1 2	34	38		51	15	2 4
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Ans ouaru lequetiu bas tres apud lectione trastri Sequens barum ouarum	2 2	-	18		62	50	3
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Declinios duarum sequentium eas ad septentrionem et	t quafi	fit	-01	5.8		201	-6
Super verticem	2	2	38	M	11	130	4

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fo.9		Declinioz earum ad meridie Occultioz sept.onarů viúctarů q sunt a pte merio.	2 2		-	M	119	145	6
		Lucida ouaru viutaru: 2 vicié Alphart Antecedens triu q funt post reflexione colli	1 2	1 /	1 8	M	26	30	4
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Longioz quattuoz q funt in capite a parte meridiei	3		138		21	40	5
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Que est super spatulam vertram	3	132	48		-	30	-3
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Sequens trium que funt super vozsum	13	22	158	0000	40	0	3
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	8.	Que est super calcaneum buius pedis	3 32 28		40 2 *32
		Que est sub concenitate pedis finistri	3 22 28	55	10 4 33
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C Tabula Loniunction i Jouis 2 Dartis post incarnation & Christia

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Tabula Sineritario Alpectus Lune in Elimate fecudo:cuino latitudo est gradus 24 et minuta. 3. et boze. 1 5. minuta. 24

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Tabula Divertitatio Alpectus Lune in Llimate terrio:cuius lathudo est gradus 30.et minuta. 38.et boze. 14.

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