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Institutiones mathematicae - Cod. St. Blasien 67

Kircher, Athanasius Würzburg, 1630

Einleitung

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Fauente Iesu et Maria. Ad gloriam se vrinit: In Instituões Mathematica Visciplina.

Antegm ad arduam veru mathematica rum fractationem progrediamur, vigu è ponere prius quasdam prologioes, v. potig ja ac fimplicigima Mathematic pipia, glog gceptis paulati ad maiora, inospenso pede gradiamur: ga legte the in poster. Analyti in orde aligi disciplimis oportet prig hte align prolicem, et guasi peacytentem morem; sie mathematic stidioga in orig ad adita coru deducendo è, gen simplicissima elementa et naam rei, gen discere Grat, bone espectà habuerit. via Soc meliori me-

suest: 3 Vnde et que sit mathematica of Reforma mathematica a graco yearew, git à lisco, déducta inde originem suame suege suod cu Rectorica et Poètica ac vulgaris musica me vou et exeexcito aby disciplina pripi point. mathera fir sica nont a quogni ligi, nisi prig hises ogam diligente descrit sigs; ideog et and rus navescos. Original ha sica dicta sucrunt: spertim cu ad sicas et artes alias addiscendas sint mate idones, et circa respectuo eden mo se histos versent. Ad 2 A. Mathematica nisité aliud, nisi sica premplativa, gin som res ilgia et roe preptas, se et sensiby q abstractionem

appliest, ewig species paulo post vide. I QUOST: Z. Lua sit vilitas evus. I. R. é ea ita multiplex, et g oes suas vita partes ita Visiga, et sigue carete à poiny. Incipit n. malsematig a minimis, et gunche et enite, tundem desimt in

eali et ferra, vrfitig veru remploe. 1. Buestro 3. Suodnam offm. t. 18 hie zol Jumi poe gritem. Alia n. e totig extensio, ym vocant entitativa reality in diffracta ab illo, cuiq è extensio, cois orbo paiemtis, any matseci para curant. Alia g 2 parenton zolituit extensa & se extendens fam ipsa fortam, eui me insediak, gm accida, gbg imediate The ; of It issa fit tens , alwhum to marlium & nobilissa , flytamy one amulah ; form form , ya issa carty , masm ga a form; copositul ga ese externa et sine soto also apla e exe maa sua subre aligs aintiby, et copositi quasi gada referre cu ijedem, semez è forminata in figura aligm, mata coaua, grivois et corruptiois expers, nisil has stranu, difficultatu astocaru parens, ingenioru excitatrix, poa Dia et fagia eig imenga co= perdioja gda ogfentao; alg ví fie zgiverata, é obtin mathematica; hane mathei amarut, rame adornarut, el ex has one composurat senting; beta seme finita, infinita poleste, fine augens attendo, sine diminerado imminuas; ibi n gda magnitudo, hie multitudo goelis infinita zgurgit, et bac e obim matheira; file goen eig terminas; offin fote et adaquate issa gotifas 3 nata, vt fic: Ex hac n 3 minoc varia oriung figura et nucri, ques mathaig definit, deg jogis varia drugtral. Ally have cilla gutitas of dies folet mas ilgibiles ad driam mas Senfibilis, gad obygin Spectal, illa n. ab bac giletin gaparah, ac folo ilche peigit. Innen igit et digerate viring ferminate est man thibilis; illud Geometrico, hor fritmetico. Him m. palet, cur dicat mathey of derive gutitem finitam qua accioit Eminata o finita a, otisi dari poet gutitas aliqua mata et fiul infinita, deca m. Improes Euclidis fieri poe, paket ex 3 angulo broke fres angulos aqualis duoko rechis.

Quast: 4 An mathematica git Jeia . H. affirm: et got gorie dita Jeia fi Plato, protes Alberty. 8 the margilly, Agyorg, simara tolety 12 gift 4 c2 in grys zaborella go ga my trat de foto veras sprietes; In a socioata, definices, suffulata et supposives; nec n nec é, ve ad firam align regrant case profica, of sover volut, alroan metags: of logica in cent file, got in falgue po mais ga vg. Mud Euclides polema: Jet data zangulu aglateru zerveze, parit vera in nio audientis ficam, ostendit n. caam agthis lateru et, ga st semisiametri aqualiu circulore, a argentas gedrit a denise sofi, gat e circula, mediu v. Afris circuli passio zangulu aglateru zstrubu 2º vera ometrao en suer fant det a notioriba nobis et maa geedere, I tales It germetrica go 30 ex Berigho . c 5. smifrao of goristum oftendere et get et got got , at c= fects cateris anytroidy melig offent geometrice of primetice vg mytras goois 32 Euclidis offendit anguli in femicirculo ex rectu, go oro ignotu evat, et affert caam, g parit ignorabat; see cu in physica et metaphy: n frant, in gog effe plering noti st, can latent; palet en suerroe geometricas Imstroes n'in verissas of etoin Quest: 5. Que Pruisio mathematico . Pythagorei Plato, tres et alij cam (diffantiffas.) mas elebrarut, qua mattematica dividit in Aritmetica geometria, Mufica, et Aftronomia fed ad maiore Afgrenitem poterit mathematica jo in gure matseras et mixtes druids. Sura matsera ft, quiderant gutem absolute acceptam, eigg affires, of Geometria et Arrimetria, illa goton Anna, Sac digeretam. Mixtast, quary offen partim mathecum, partim made e, cu fit gotes ad main certa certo moto offita; of floriges chia, fine optica, Afronomia en Cosmographia, musica mechanica; na Geomet rfemplat lineas et magrutudines stidere a man abstractor; Porspecting linear viguales, got ofment and aspectu , ofting vigus fit rethe radius in lineary morn extenses. Aritmetia greatit mieros absolutos, mujug sonoros. This Germen sosara et maginem a maa vocat; fefronomy cadem got in corporiby calegliby me, medital; his accent los. mographia, g long mundi description bradit sty ex his 6 mathematic speedy tota mathera absolute, quare nishling mang in plurimas ahas veluti Subalternas dividit. v. Sectio 7. Ariforetica jo gubdinioiti in ea parte, a fradit Druphices spees, et ex his mixtas. Priores ft. Adiho, Jubracho, multiplicas, Divisio . Dosferiores of growing: Regula frin, fine aurea, Regula york, vi Societatis, Regula allegois regula falsi 2 Aritmetica partia, Sen of vulgo, fractiona 3. Aritmetica provisione. 4 jubilita pribmetica coja, gon valgo flgabra vocat. 5. fribmetica astronomica. 6 fribmetica geodatica. 7. pritmetica mufica . 8. pritmetica militaris . q. pritmetica artificialis monoria . 30. pritmetica literalis es got ex liters et vocabulis certa nueram artificiose chicist, g et a gracis di aritmetica ad aglibris. De qua Gell: plavima in lib. make: Hac m. a Rabbinis vocah mystica fine cababica, eo gat multa sung subsidio ex facts liberis se eruere affirmant ibae guog a tribbemio vocal steganographica eo sa occulti ai negly gea alter have artem callent manifestari point, occulto et infolubiles litera feribi x. Sectio. 2 Musica jo jutorium in humana, mundana, artificiale, Dhybrica, metrica, computatrice v: canonica, et instrumentale. Humana mufica g'et microsmica ab alijs vocats, estiderat boiem et tres ai par. tes, ilitm fengy hom, Abent triby somanly's harmonicis, diaxabur, diaxente, diareotaquer. ja n. Tilla spiderat. mentem; imaginoem, memoria, cogitoem, opioen, viem, seiam, quo nuero - zonaria diamabur. 2º youra Siagrer + Hideral 5 Jeng . 3a. 4 corporis humores. Munda na mufica carnity inco, go car

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leghis moto exactifium grada scentis et Sarmoniam schituant, hi quoad moting in Sarmonicis spichet poor, 5 riving, hi guo ad apochy stellary, luna solis if ver somias muticas referre work. Attificialis mutica itera vi Sarmonica, Byfrica v: metrica e. Harmanica e, gnaum, porietes, et religua soni acritia roberat Rogenica g in obtimate guada verborg, gyllabarg, vering mexice zight. metrica defora metroru marfura roe guada Subhli acquability nueros investigat de his lake blib famely freguet frificialis itori dividity in Theorica et practica, illa e glorfory jonora gerietak et fons disparen divisionem ingenio et roe n'aure dijudicat. Hac ifera in computatoria, vocale, et instrumentale. Computatorix e, q desumptis juijes ex Treoria sympsom: as multary voca sofrait. Vocalis fora moruloe stenta e Infrumentalis q iteru zolex e, dividit in cam, I officis informments, nerus, froite fonoris. 2º m ea g organs preumaticis frue flatu et ventu emittenting officis 3º. In ea g'oulyu sticif y grovis ft: lyra, cythara, testudo et stia. zi ft organa, tuba, fighila · 3i tympanu, cymbalu, campana, et Sac de mufica sufficient . Sectio 3. Geometria Dinos polisum in Altimetria, planimetrium seu geodafian, retriographica, stereo = metria, quaru alternata e mechanica i guboriudif in inglintory effectivem grace deyoray rixiv ! mirendery greg rera efectivem grace oxusea Toxay Tixy, posararu efective fine 6 que oxay Tixy, militare, Architectorica. Allimetria, et trigometria versanti circa gutitem lineary. Planimetria circa glanorie et Sugficierii; glereometria circa corporu mensurandory gntitem. Ichnographia inuestigat sunothem, regionu, Juluary, agrory, montiu, cinitatu, domoru filu et ces angulos. machanica, g et statica dies of, verjat circa roem ponderu e instruta elevandore, esta multiplex ; Sydrostatia, a versal circa librandas agues : sterostahea, g circa librois deris, qua roi purg der et impurg dignoscentez; qua appelloc ilgas doctrinà declarantem gutin ponderis defora famía, en gog idem mita ponde de pendet, glibet fugerat. Acrobama, qua inacytigant pondera cork of in Sumo govania, aggy innatat, veluti names. Salinothhystica denig, of docet works model frana general ad egus exercentos et exagitantos. Mirandara reru effectrix mechanica é illa, q estentit, qua roe mania pontera minima vi follant in alla, item goo agua anthijs alijeg instrutis ship ex instimo ad summa educas. item qua rol mira flata et gou intercluso esficiants, et organa bydraulia, g ese ventor, flatu resonant. glatua variore malium voies edentes. Automata fine instruta gleipsis moneant; tues et dracones volates efficere, status ambulantes. Sohare poètica e, à docet enstruere soharas et globos varios ad calestia circurolutiona imitoem, quales in Sovierna dien it; horologia artificiata, of fregentoralenge. 1. Poliorcatica a bellis comoda, instruta fabrical, arieks, tephoines, furres ambulatorias et Sha, g libris Atha. nei, Bitimis, Heronis, Paggi, philonis et vinents. Vlimo Brebitectonia, g docet mode et gymetriam Dificiora adificandora; Et Jul se sculptoria artem, g de govrtice retu sculpendary tractat; Dividis in chimi= ca, et calatoriam, g plurimas sub sa st spees, Anaglyphica, Diaghica, Playtica, protoglastica, Paredi= gnatica, Bomica, cologhea, g ors who atginuention ruentut of mea dount. Crimica Sea efformatoria g effingit fußigen maam. Statuaria in 5 é distincta spees; ca ligno chorez tractat, as abscindendo Topixy vicet; cum argilla, quoria figulori E, xxabrixy; cu gypso, got co lypos imitamur, xacadixuarixy. nos exemplaria vocare poterimo. Co lapidilo voi fealgello vlimur, a genspice notaririni, fine feulytura, cu metallis ydroini 1. julytura dvaydepini, gito engulpit, of englant imagines. Siaydroini, godo Self.4. injentoit ad impopura etc. San de dinifice huig Sufficient . 4. 4.

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6 Sectio 4. Astronomia dividió in spharica, gnomonica, meteorogropica, dioptica, Epicyclica, Notes computativeen, genethlised fine indiciavia, meteorologica fosciria cali sucression suspicit, orta, has y chars obity, motog fidera, anes, polos et gego ad ju mobile prinet. Gnomonica room borologiory seu scioteris pincty d core spiciendor g gorietes umbrary rocet, mig ea nan e, of in fole positive exe rady original sheli umbra, ven moti, positung cali, muis variu, gipue a solis cernenou govat meteoroscopica intercapedines Syderu, et drias Sublimitatu dephendit. Diophia, g solis et luna aliorug, sodoru intercape-Fines colligit et ordinat ad Sane ofinet seia astrolabij. Epicyclica vocab, ig moto stellary, planetaru Sur cyclis, mentions, extentions, pyressions, directions, plations, ecclypses solis et luna et stia computat, et in aphamerides redigit. Genethliaca divinatrix, a indiciaria ziderat uim atg influxu in bac inferiora, e varis fidera aspection, excits, and eventing, et in futures eventy accomodat, of fi siderent, of pentert a cais maalibg et mijs, bona e, finalif, mala. mekorologica e, g ziderat mattematica roe oia meter ora, of cometas, virgas, frabes igness ek. Computatione e, g room foris, anni, mensiu, dieru, borary ob-Several; room Pagebatis, et reliquors mobilie sectore explicat, in diaria redigit. t Sectio 5. Optica dividity in espectiva, a explicat cass, cur multa alit, am fint, appareant vifus, vt. in socialis che in latoptrica, q varjat; circa videndi modi , a requisso fit, vi in specialis plans v: fixis. Proptica Hiderat naam refractiois circa tubori roen. ze. In Genographiam, orthographia, Hercographiam 30 in Catophia, Trophia, of zerderat refrections. orthographica, of describit fronts observa imagines. seensgraphica frontis fiel, et abseccentis latere doumbrão e . stereographica é of corpora quarticio y vitabi, pyramidis etc. giechuras opticas offendit, quara oiu mieg è vyo in architectura, pictura, et statuaria. v. Sell: 6 Cosmographia é seia circa long mundi ordinem, naam, situ versans; dividis in geographia, topograpsia, et agnograpsia. ja a descriptio totig terrestris globi. Zaliving partis loci of Germania 30 a exactiffa alicuig regni, fylux, campi, et artificiosa quois ses angulos, agros, vias funothis delineas . Y. Y. guest: 6. De Principies mathematicis. Principia st aplicia je Definitives seususposiçes, gog vocabula artis sue explicat 2º Drincipia son petitives seu postulata, gst goves certige et claristima , also poshelat seeds, od negari mellos of, of a quouis puneto ad others punete rocta linea ducere 3º Aziomata seu dignites. 4. Propogioes seu relugioes Imphabiles et Doruglices, y à Theorema Soi e 1800 passionem enunhas De jublo, at de Banqulu fres St Angulos aquales Duoba rechis. Z golema 1000 é, qua id, get prig setruendu furt, zetruche postea vecte zetruche ce zeledit, vt suz datum, lineam finita, zangulu aglaterum Africre 3. lema égoo, à cu fit, serviat v: Theoremati, v: oblemati, priq v: Impfrat, v: 24truit alights min Institutionum Mathematicarum Partis ja Tractatus ja Caput J. De Aritmetica vulgari, seu Algoritmo. +.

L'aput J. De integrorum numerorum elementis. +

Aritmetica elementaris, sine logistica. 45t, vulgares spees, gft. Adritio, subtractio, multiplicao, Divisio. Signe alig numeratione adount; le 369 orby agendi mitro facto a numeratione . Artig.

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