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290

Christianus
Frenelius

220

DE LATERI-
 BVVS ET ANGLVLI TRI-
 angulorum, tum planorum rectilineorum
 tum Sphæricorum, libellus eruditissimus
 & utilissimus, cum ad plerasque Pro-
 lemasi demonstrationes intelligen-
 das, tum uero ad alia multa,
 scriptus à Clarissimo &
 doctissimo uiro D. Ni-
 colao Copernico *Paper*
 Toronensi.

Additus est Canon semissium subren-
 sarum rectarum linearum
 in Circulo.

Blot Lohm...
 Excusum Vittembergæ per
 Iohannem Lufft.
 Anno. M. D. XLII.

GYMNASIA
 BIBLIOTHEK

Paper
 98



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XVI. Qu. 3049

DOCTRINA ET VIRTUTE PRAESTANTI

Georgio Hartmano Noribergensi, Ioachi-
mus Rheticus S. D.



CUM rerum humanarum inconstantiam, uarios casus summorum uirorum, regnorum mutationes confidero, cum in cæteris rebus imbecillitatem humani generis deploro, tum uero maxime doleo etiam in artes diuinitus humano generi traditas fata temporum seuire. Olim studia frequentissima Mathematicum fuerunt, tota ars ex fundamentis mira solertia, Deo monstrante initia & regente artificum mentes, extructa est, magna lux, magnus honos huius doctrinæ fuit, Postea multis seculis acuit obruta tenebris, fortaſſe eó quód in hac ultima mundi ſenecta orbis terrarum Barbarorum imperijs fato quodam oppreſſus eſt. Sed quia artes uitæ uiles, præcipua Dei dona ſunt, reſ ipſa oſtendit, non humana ope, ſed quodam ſingulari Dei beneficio, ut cunq; eas conſeruari, & interdum rurfus ceu flammam excitari, ne funditus intereant. Sed etiam cum reſtitutæ ſunt, proſus accidit hominibus, quod aiunt Pythagoram dixiſſe de cœleſtium motuum harmonia, qua ille quidem dixit effici dulciſſimos ſonos, ſed non audiri eos, quia iam propter conſuetudinem negligantur, ita ſurdi homines nec audiunt, nec tueri ſtudent artes diuinitus nobis redditas. Et ut cætera præſentia bona ſatiſtimus, ita & hanc doctrinam, cum fruimur quotidianis beneficijs, leuiorem ducimus. Si deeſſet annorum enumeratio in hitorijs, in religionibus, in foro, quantæ eſſent in uita tenebræ. Si numerorum doctrinam non haberemus, infinita eſſet legitimorum cõtra-

Quum conturbatio. Architectonica tota ex Geometria or-
ta est, & sunt alię utilitates multe in metiendis corporibus.
Hęc beneficia cum sint in manibus fontes tum negligun-
tur, tum uero a multis superbe contemnuntur. Itaque ma-
gna gratia debetur bonis uiris, qui in tanto doctrinę con-
temptu, sponte laborem suscipiunt & sumptus faciunt, in
his diuinis artibus excolendis & utilitatis publicę causa con-
seruandis. Cum autem nobis monumenta utilia istic tum
edantur, tum adornentur, duxi hoc te munere uicissim or-
nandum esse, quod non dubito tibi gratissimum fore. Scis
doctrinam Triangulorum maximos usus habere, cum in
alijs geometricis materijs, tum uero precipue in Astrono-
mia, ideoq; sæpe in eam Ptolemæus incurrit. Quare & hi
qui Ptolemæum explicare conati sunt, multa de Triangu-
lis commentati sunt. Et optarim extare ueteres Mene-
laum & Theodosium. Nuncrecens prodijt lucubratio Re-
giomontani, sed multo ante quam hanc uidere potuit uir
Clarissimus & doctissimus D. Nicolaus Copernicus, dum
& in Ptolemæo illustrando, & in doctrina motuum traden-
da elaborat, de Triangulis eruditissime scripsit. Scio tibi
admirationi fore, hoc scriptum, cum uidebis, quantas res,
quàm artificiose complexus sit. Ut autem hoc tempore
ederem, eo accidit, quia in enarratione Ptolemæi nobis
opus fuit Triangulorum doctrina, tibiq; eo dedicauit, ut te
prouocarem ad edenda, si qua in hoc genere habes, seu ue-
tera, seu recentia. Huc accedit, quod audio amicitiam ti-
bi Romę fuisse cum autoris fratre. Sed tibi uiro doctissimo
non minor est causa quam hęc ad amandum autorem,
acerimum ipsius ingenium, & cum in cæteris artibus, tum
maxime in doctrina cœlesti eruditio tanta ut ueteribus
summis artificibus conferri possit. Ac gratulari huic ætati
debemus, tantum artificem reliquum esse, qui studia ali-
quorum accendat & adiuuet. Mihi quidem iudico rem
nullam humanam contigisse meliorem, quam talis uiri &
doctoris consuetudinem, Ac si quid unquam mea opera
in

in hoc genere Reipublicæ profutura est, ad cuius utilita-
tem studia nostra referenda sunt, huic doctori acceptum re-
ferri uolo. Itaque cum hanc lucubrationem & ingeniosissime
scriptum esse sciam, & ego eam propter autoris me-
moriæ magnificiam, uelim te hoc mu-
nere magnopere
delectari.
Bene vale.



Has artes teneris annis studiosa Iuuentus
Discito, Mensuras quæ numerosq; docent.
Premia nanque feres suscepti magna laboris,
Ad cælum monstrant hæc tibi scripta uiam.
Qua patet immensis spacijs pulcherrimus orbis,
Si metas horum cernere mente uoles.
Sidera uel quamnam cæli regione uagentur,
Æterni cursus quas habeantq; uices.
Cur Luna inuoluat cæca caligine fratrem,
Cur Lunæ usuram lucis & ille neget
Venturos etiam casus quæ fata gubernent
Quas populis clades astra inimica ferant
Hæc si nosse uoles, prius est doctrina tenenda,
Quam breuiter tradunt hæc elementa tibi.
Cunq; hominū mentes, quæ cælo semina ducunt,
Errent a patria sede domoq; procul,
Hæc doctrina ipsas terrena mole solutas
Cælesti reduces rursus in arce locat.

DE LATERIBVS

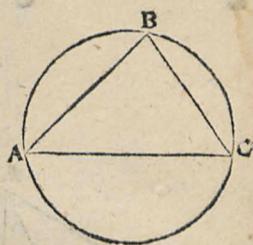
ET ANGLVLIS TRIANGV

lorum planorum rectilineorum.

I.

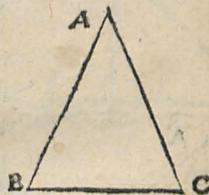


TRIANGVLI datorum angulorum dan-
tur latera. Sit, inq̄, triangulum a b c,
cui per quintum problema quarti Eu-
clidis circumscribatur Circulus. Erunt
igitur & a b, b c, c a circumferentiæ da-
tæ, eo modo, quo cclx. partes sunt duo-
bus rectis æquales. Datis autem circum-
ferentijs dantur etiam latera trianguli
inscripti circulo tanquam subtensæ, per expositum Cano-
nem, in partibus, quibus dimetiens assumpta est 200000.



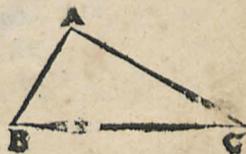
II.

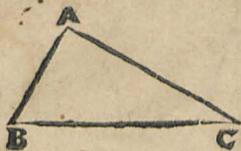
Si uero cum aliquo angulorum duo trianguli latera fue-
rint data, & reliquum latus cum reliquis angulis cognosce-
tur. Aut enim latera data æqualia sunt aut inæqualia, Sed
angulus datus aut rectus est, aut acutus, uel obtusus. Ac rur-
sus latera data datum angulum uel comprehendunt, uel
non comprehendunt. Sint ergo primum in triangulo
a b c duo latera a b & a c data æqualia, quæ angulum a
datum comprehendunt. Cæteri igitur, qui ad basim b c
cum sint æquales, etiam dantur, uti dimidia residui ipsius a,
è duobus rectis. Et si qui circa basim angulus primitus fue-
rit datus, datur mox ipsi compar, atque ex his duorum re-
ctorum reliquus. Sed datorum angulorum trianguli dan-
tur latera, datur & ipsa b c basim, ex Canone in partibus
quibus a b uel a c tanquam ex centro fuerit 1000000 partium
siue demetiens 2000000. partium.



III.

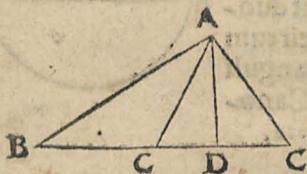
Quod si angulus, qui sub b a c rectus fuerit datis cõpre-
hensus laterib⁹, idem eueniet. Quoniam liquidissimū est, q̄
quæ ex a b & a c fiunt quadrata, æqualia sunt ei, quod a basi
b c, datur ergo longitudine b c, & ipsa latera inuicem ra-
tione





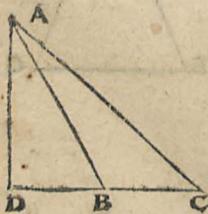
rtione. Sed segmentū circuli quod orthogonū suscipit trian-
 gulū, semicirculus est, cuius bc basis dimetiens fuerit. Qui
 bus igitur bc partibus fuerit ²⁰⁰⁰⁰⁰⁰. dabuntur $a b$ & $a c$, tan-
 quam subtendentes reliquos angulos bc . Quos idcirco ra-
 tio Canonis patefaciet in partibus, quibus ecclx sunt duo-
 bus rectis æquales. Idem eueniet, si bc fuerit datum cum
 altero rectum angulum comprehendentium, quod iam li-
 quide constare arbitror.

III.



Sit iam datus, qui sub $a b c$ angulus acutus,
 datis etiam comprehensus lateribus $a b$ & $b c$,
 & ex a signo descendat perpendicularis ad bc
 produciam si oportuerit, prout intra uel extra
 triangulum cadat, quæ sit $a d$, per quam discer-
 nuntur duo orthogonij $a b d$ & $a d c$, & quoniam
 in $a b d$ dantur anguli, nam d rectus & b per
 hypothesim. Dantur ergo $a d$ & $b d$ tanquam
 subtendentes angulos a & b in partibus, quibus
 $a b$ est ²⁰⁰⁰⁰⁰⁰, dimetiens circuli per canonem. Et eadem ra-
 tione qua $a b$ dabatur longitudine, dantur $a d$ & $b d$ si-
 militer, datur etiam $c d$, qua $b c$ & $b d$ se inuicem excedunt.
 Igitur & in triangulo rectangulo $a d c$ datis lateribus $a d$
 & $c d$, datur latus quæsitum $a c$ & angulus $a c d$ per præce-
 dentem demonstrationem.

V.



Nec aliter eueniet, si b angulus fuerit obtusus, quoniam
 ex a signo in $b c$ extensam rectam lineam perpendicularis
 acta $a d$, efficit triangulum $a b d$ datorum angulorum.
 Nam $a b d$ angulus exterior ipsi $a b c$ datur, & d rectus.
 dantur ergo $b d$ & $a d$ in partibus, quibus $a b$ fuerit ²⁰⁰⁰⁰⁰⁰.
 Et quoniam $b a$ & $b c$ rationem habent inuicem datam,
 datur ergo & $a b$ earundem partium, quibus $b d$ ac tota
 $c b d$. Idcirco & in triangulo rectangulo $a d c$, cum data
 sint duo latera $a d$ & $c d$, datur etiam $a c$ quæsitum, & an-
 gulus $b a c$ cum reliquo $a c b$, qui quærebatur.

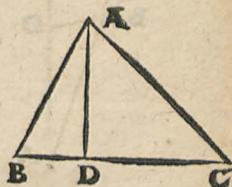
VI.

Sit iam alterutrum datorum laterum subtendens angu-
 lum

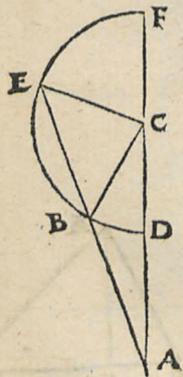
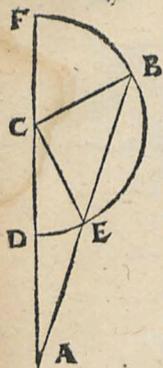
lum b datum, quod sit a e cum a b , datur ergo per Canonem a c in partibus, quibus est dimetiens circuli circumscripti triangulum a b c partium 2000000 . & pro ratione data ipsius a c , ad a b , datur in similibus partibus a b , atque per canonem, qui sub a c b angulus cum reliquo b a c angulo, per quem etiam c b subtensa datur, qua ratione data, dantur quomodolibet magnitudine.

VII.

Datis omnibus trianguli lateribus dantur anguli. De Isopleuro notius est, quam ut indicetur, quod singuli eius anguli trientem obtineant duorum rectorum. In Isoscelibus quoque perspicuum est. Nam æqualia latera ad tertium sunt, sicut dimidia diametri ad subtendentem circumferentiam, per quem datur angulus æqualibus comprehensus lateribus ex Canone, quibus circa centrum $ccclx$ sunt quatuor rectis æquales, deinde cæteri anguli qui ad basim etiam dantur è duobus rectis tanquam dimidia. Superest ergo nunc & in scalenis triangulis id demonstrari, quos similiter in orthogonios partiemur. Sit ergo triangulum scalenum datorum laterum a b c , & ad latus, quod longissimum fuerit, utputa b c , descendat perpendicularis a d . Admonet aut nos xij . secundi Euclidisq; a b latus quod acutum subtendit angulum minus sit potestate cæteris duobus lateribus, in eo quod fit sub b c & c d bis. Nam acutum angulum c esse oportet, eueniet alioqui & a b longissimum esse latus contra hypothesim, quod ex $xvij$. primi Euclidis & duabus sequentibus licet animaduertere. Dantur ergo b d & d c , & erunt orthogonia a b d & a d c datorum laterum & angulorum, ut iam sæpius est repetitum, quibus etiam constant anguli trianguli a b c quaesiti.



Aliter. Itidem commodius forsitan penultima tertij Euclidis nobis exhibebit, si per breuius latus, quod sit b c facto c centro, interuallo autem b c , describerimus circulum, qui ambo latera quæ supersunt, uel alterum eorum secabit. Secet modo utrumq; a b in e signo & a c in f



in d porrecta etiam linea a d c in f signum ad comple-
 dum diametrum d c f. His ita praestructis manifestum est
 ex illo Euclideo praeepto. Quoniam quod sub f a d equa-
 le est ei, quod sub b a e, cum sit utrunq; aequale quadrato li-
 neae quae ex a circulum contingit. Sed tota a f data est,
 cum sint omnia ipsius segmenta data, nempe c f, c d, aequa-
 lia ipsi b c, quae sunt ex centro ad circumcurrentem, & a d
 qua c a ipsam c d excedit. Quapropter & quod sub b a e
 datum est, & ipsa a e longitudine cum reliqua b e subten-
 dente circumferentiam b e, Connexa e c, habebimus tri-
 angulum b c e Iosceles datorum laterum. Datur ergo an-
 gulum b c e. Hinc & in triangulo a b c reliqui anguli c & a
 per praecedentia cognoscentur. Non fecerit autem circu-
 lus ipsam a b, ut in sequenti figura, ubi a b in conuexam
 circumferentiam cadit, erit nihilominus b e data, & in tri-

angulo b c e Ioscele angulus c b e datus, & ex-
 terior, qui sub a b c. ac eodem prorsus argu-
 mento demonstrationis quo prius
 dantur anguli reliqui.

Et haec de triangulis rectilineis dicta suffi-
 ciant, in quibus magna pars
 Geodesiae consistit.
 Nunc ad Sphaerica
 conuertamur.



DE TRIANGVLIS SPHAERICIS.

TRIangulum conuexum hoc loco accipimus eum, qui tribus maximorum circularum circumferentijs in superficie Sphærica cōtinetur. Angulorum uero differentiam & magnitudinem penes circumferentiam maximi circuli, qui in puncto sectionis tanq̄ polo describitur, quamque circumferentiam circularum quadrantes angulum comprehendentes interceperunt. Nam qualis est circumferentia sic intercepta ad totam circumcurrentem, talis est angulus sectionis ad quatuor rectos, quos diximus ccclx. partes æquales continere. **I.**

Si fuerint tres circumferentiæ maximorum circularum sphærae, quarum duæ quælibet simul iunctæ, tertia fuerint longiores, ex his triangulum componi posse sphericum perspicuum est. Nam quod hic de circumferentijs proponitur, xxij. vndecimi libri Euclidis demonstrat de angulis, cum sit eadem ratio angulorum & circumferentiarum, & circuli maximi sunt qui per centrum sphærae, patet, q̄ tres illi circularū sectores, quorū sunt circumferentiæ, apud centrum sphærae angulum constituunt solidum. Manifestum est ergo quod proponitur.

II.

Quamlibet circumferentiam trianguli hemicyclio minorem esse oportet. Hemicyclium enim nullum angulum circa centrum efficit, sed in lineam rectam procumbit. At reliqui duo anguli, quorum sunt circumferentiæ, solidum in centro concludere nequeunt. Proinde neque triangulum sphericum. Et hanc fuisse causam arbitror, cur Ptolemæus in huiusce generis triangulorum explanatione, præsertim circa figuram sectoris spherici protestetur, ne assumptæ circumferentiæ semicyclio maiores existant.

III.

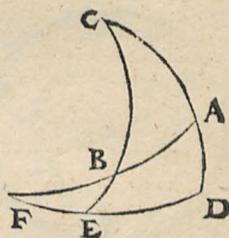
IN Triangulis Sphæricis rectum habentibus angulum, subtendens duplum lateris, quod recto opponitur

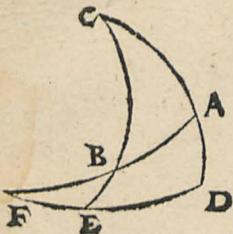
B ij angulo

dimidia subtendentis duplum latus $b a$, & $d k$ semissis subtendentis duplam $d e$, siue angulum dupli a , atque $d f$ dimidia diametri sphaerae. Patet igitur quod subtensa dupli ipsius $a b$, ad subtensam dupli $b c$, est sicut dimetiens ad eam quae duplum anguli a siue interceptae circumferentiae $d e$ subtendit, quod demonstrasse fuerit opportunum.

IIII.

In quocumque triangulo rectum angulum habente, alius insuper angulus fuerit datus, cum quolibet latere, reliquus etiam angulus cum reliquis lateribus dabitur. Sit enim triangulum $a b c$ habens angulum a rectum, & cum ipso etiam alterutrum ut puta b datum. De latere uero dato trifariam ponimus diuisionem, aut enim fuerit, qui datus adiacet angulis, ut $a b$, aut recto tantum, ut $a c$, aut qui opponitur recto, ut $b c$. Sit ergo primum $a b$ latus datum, & facto in c polo describatur circumferentia maximi circuli $d e$, & completis quadrantibus $c a d$ & $c b e$, producantur $a b$ & $d e$ donec se inuicem secent in f signo. Erit ergo uicissim in f polus ipsius $c a d$, eo quod circa a & d sunt anguli recti. Et quoniam si in sphaera maximi orbis ad rectos sese inuicem secuerint angulos, bifariam & per polos se inuicem secant. Sunt ergo & $a b f$ & $d e f$ quadrantes circulorum, cumque data sit $a b$, datur & reliqua quadrantis $b f$, & angulus $e b f$ ad uerticem ipsi $a b c$ dato aequalis. Sed per praecedentem demonstrationem subtensa dupli $b f$ ad subtendentem dupli $e f$, est sicut dimetiens sphaerae ad subtendentem duplum anguli $e b f$. Sed tres earum datae sunt, dimetiens sphaerae, dupla $b f$, atque anguli dupli $e b f$, siue semisses ipsorum. Datur ergo per xvi. sexti Euclidis etiam dimidia subtendentis duplam $e f$ per canonem ipsa $e f$ circumferentia, & reliqua quadrantis $d e$, siue angulus c quaesitus. Eodem modo ac uicissim sunt subtensa duplicium $d e$ ad $a b$, & $e b c$ ad $c b$. Sed tres iam datae sunt $d e$, $a b$, & $e b c$ quadrantes circuli, datur ergo & quarta subtendens duplum $c b$, & ipsum latus $c b$ quaesitum. Et quoniam subtensa duplicium sunt ipso-





rum cb ad ca , & bf ad $e f$. Quoniam utrorūq; sunt ratios sicuti dimetiētis sphaeræ ad subtensam duplo $c b$ a angulo, & quæ vni eadem sunt rationes, sibi inuicem sunt eadem. Tribus iam igitur datis $b f$ $e f$ & cb datur quarta ca , & ipsum ca tertium latus trianguli abc . Si iam $a c$ latus assumptum in datis, propositumq; sit inuenire ab & $b c$ latera, cum reliquo angulo c , habebit rursus permutatim subtensa dupli $c a$ ad subtensam dupli $c b$ eandem rationem, quam subtendens duplum $a b c$ angulum ad dimetiētem, quibus $c b$ latus datur & reliqua $a d$ & $b e$ ex quadrantibus circularum. Ita rursus habebimus ut subtensam dupli $a d$ ad subtensam dupli $b e$, sic subtensam dupli $a b f$, & est dimetiēns, ad subtensam dupli $b f$. Datur ergo $b f$ circumferentia, quodq; superest $a b$ latus. Simili ratione ut in præcedentibus ex subtendentibus dupla $b c$, $a b$ & $f b e$, datur subtensa dupli $d e$, siue angulus c reliquus. Porro si $b c$ fuerit in assumpto, dabitur rursus ut antea $a c$ & reliquæ $a d$ & $b e$, quibus per subtensas rectas lineas, & diametro, ut sæpe dictum, datur $b f$ circumferentia & reliquū $a b$ latus, ac subinde iuxta præcedens Theorema, per $b c$, $a b$, & $c b e$ datas proditur $e d$ circumferentia, angulus videlicet c reliquus, quem quærebamus. Sicq; rursus in triangulo $a b c$ duobus angulis a & b , datis, quorum a rectus existit cum aliquo trium laterum datus est angulus tertius cum reliquis duobus lateribus, quod erat demonstrandum.

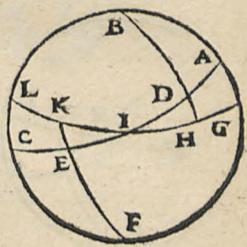
V.

Trianguli datorum angulorū, quorum aliquis rectus fuerit, dantur latera. Manente adhuc præcedente figura, vbi propter angulum e datum, datur $d e$ circumferentia, & reliqua $e f$ ex quadrante circuli. Et quoniam $b e f$ est angulus rectus, eo quod $b e$ descendit à polo ipsius $d e f$, & qui sub $b e f$ angulus, est ad uerticem dato. Triangulum igitur $b e f$ rectum angulū e habens, & insuper b datum cum latere $e f$, datorū est angulorum & laterum per Theorema præcedens, datur ergo $b f$, & reliqua ex quadrante $a b$, ac itidem in triangulo $a b c$ reliqua latera $a c$ & $b c$ dari per præcedentia demonstratur. Si

VI.

Si in eadem sphaera bina triangula rectum angulum ac insuper alium equalem habuerint, alteru alteri, unumq; latus vni lateri aequale, siue quod aequalib⁹ adiacet angulis, siue quod alterutro aequalium angulorum opponitur, reliqua quoq; latera, reliquis lateribus, aequalia alterum alteri, ac angulum angulo, reliquum reliquo aequalem habebunt. Sit hemisphaerium a b c, in quo suscipiantur bina triangula a b d & c e f, quorum anguli a & c sint recti, & praeterea angulus a d b aequalis ipsi c e f, vnumq; latus vni lateri, & primum quod aequalibus ipsis adiacet angulis, hoc est, a d ipsi c e. Aio latus quoq; a b lateri c f, & b d ipsi e f, ac reliquum angulum a b d reliquo c f e, esse aequalia. Sumptis enim in b & f polis, describantur maximorum circuloꝝ quadrantes g h i & i k l, compleanturq; a d i & c e i, quos seinuicem secare necesse est in polo hemisphaerij, qui sit in i signo, eo quod anguli circa a & c sunt recti, atq; quod g h i & c e i per polos ipsius a b c circuli sunt descripti. Quoniam igitur a d & c e assumuntur latera aequalia, erunt igitur reliquae d i & i e aequales circumferentiae, & anguli i d h & i e k sunt enim ad verticem positi assumptorum aequalium, & qui circa h & k sunt recti, & quae vni sunt eadem rationes inter se sunt eadem, erit par ratio subtensae dupli i d, ad subtensam dupli i k, cum sit vtraq; per tertiu praecedens, sicut dimetientis sphaerae ad subtendentem duplum angulum i d h, siue aequalem dupli, qui sub i e k. Et per xiiij. quinti Elementorum Euclidis, cu sit subtendens duplam d i circumferentiam, equalis ei, quae duplam i e subtendit, erunt quoque duplicibus subtensae i k & h i aequales, & quemadmodum in circulis equalib⁹ aequales rectae lineae circumferentias auferunt aequales, & partes eodem modo multiplicium in eadem sunt ratione, erunt ipsae simplices i h & i k circumferentiae aequales, ac reliquae quadrantium g h & k l, quibus constant anguli b & f aequales. Quapropter eadem quoq; ratio est subtensae duplicis a d ad subtensam duplicis b d, atq; subtensae dupli c e ad subtensam dupli b d, quae subtensae duplicis e c ad subtensam duplicis e f.

Vtraq;

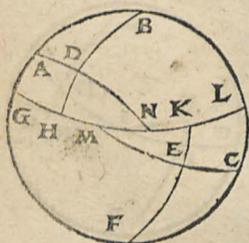


Vtraque enim est, ut subtendentis duplam h g siue equalem ipsi k l ad subtensam duplicis b d h, hoc est dimetientis per iij. Theorema conuersim, & a d est æqualis ipsi c e. Ergo per xiiij. quinti elementorum Euclidis b d æqualis est ipsi e f per subtensas ipsis duplicibus rectas lineas. Eodem modo per b d & e f æquales, demonstrabimus reliqua latera & angulos æquales. Ac uicissim si a b & c f assumantur æqualia latera, eandem sequentur rationis identitatem.

VII.

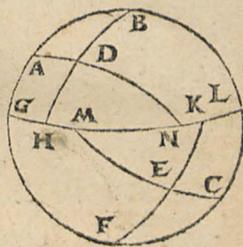
Iam quoque si non fuerit angulus rectus, dummodo latus quod æqualibus adiacet angulis alterum alteri æquale fuerit, itidem demonstrabitur. Quemadmodum si binorum triangulorum a b d & c e f, duo anguli b & d utrunq; fuerint æquales duobus angulis e & f, alter alteri, latus quoq; b d, quod adiacet æqualibus angulis, lateri e f æquale. Dico rursus æquilatera & æquiangula esse ipsa triangula. Susceptis enim denuo polis in b & f, describantur maximorum circulorum circumferentiæ g h & k l. Et productæ a d & g h se secent in n, atque e c & l k similiter productæ in m. Quoniam igitur bina triangula h d n & e k m angulos h d n & k e m habent æquales, qui sunt ad uerticem assumptis æqualibus, & qui circa h & k sunt recti per polos sectione, latera etiam d h & e k æqualia. AEquiangula sunt ergo ipsa triangula & æquilatera per præcedentem demonstrationem. Acrurlus quia g h & k l sunt æquales circumferentiæ propter angulos b & f positos æquales. Tota ergo g h n toti m k l æqualis per axioma additionis æqualium. Sunt igitur & hic bina triangula a g n & m c l habentia unum latus g n æquale uni m l, angulum quoque a n g æqualem c m l, atque g & l rectos. Erunt ob id ipsa quoque triangula æqualium laterum & angulorum. Cum igitur æqualia ab æqualibus sublata fuerint, relinquentur æqualia ad ipsi c e, a b ipsi c f, atque b a d angulus reliquo e c f angulo. Quod erat demonstrandum.

Adhuc



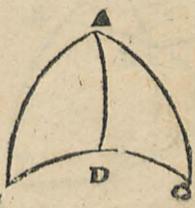
VIII.

Adhuc autem si bina triangula, duo latera duobus lateribus æqualia habuerint, alterum alteri, & angulum angulo æqualem, siue quem latera æqualia comprehendunt, siue qui ad basim fuerit, basim quoque basi, ac reliquos angulos reliquis habebunt æquales. Vt in præcedenti figura, sit latus a b æquale lateri c f, & a d ipsi c e. Ac primum angulus a, æqualibus cõprehensus lateribus angulo c. Dico basim quoq; b d, basi e f, & angulum b ipsi f, & reliquum b d a reliquo c e f esse æqualia. Habebimus enim binà triangula a g n & c l m, quorum anguli g & l sunt recti, atq; g a n æqualem ipsi m c l, q reliqui sunt equalium, b a d & e c f. AEquiangula igitur sunt inuicem & æquilatera ipsa triangula. Quapropter ex æqualibus a d & c e relinquuntur etiam d n & m e æqualia. Sed iam patuit angulum qui sub d n h æqualem esse ei qui sub e m k, & qui circa h k sunt recti, erunt quoq; bina triangula d h n & e m k æqualium inuicem angulorum & laterum, equibus etiam b d relinquetur æquale ipsi e f, & g h ipsi k l, quibus sunt b & f anguli æquales, ac reliqui a d b & f e c æquales. Quod si pro lateribus a d & e c assumantur bases b d & e f æquales, æqualibus angulis obiecti, residuibus ceteris eodem modo demonstrabuntur, quoniam per angulos g a n & m c l æquales exteriores, & g c rectos, atq; a g ipsi c l, habebimus itidem bina triangula a g n & m c l, quæ prius equalium inuicem angulorum & laterum. Illa quoq; particularia d n h & m e k similiter propter h & k angulos rectos, & d n h, k m e æquales, atq; d h & e k latera æqualia, quæ reliqua sunt quadrantium, e quibus eadem sequuntur, quæ diximus.

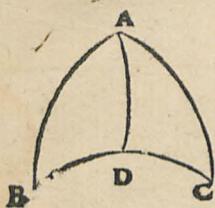


IX.

Isoscelium in Sphæra triangulorum, qui ad basim anguli, sunt sibi inuicem æquales. Esto triangulum a b c, cuius duo latera a b & a c sint æqualia. Ab a vertice descendat maximus orbis, qui secet basim ad angulos rectos, hoc est, per polos, sitq; a d. Cum igitur binorum triangulorum a b d & a d c latus b a est æquale lateri a c,



C & B D C



& a d vtriusq; cōmune & anguli, qui circa d recti, patet per præcedentem demonstrationem, q̄ anguli qui sub a b c & a c b sunt æquales, quod erat demonstrandum. Porrisma, hinc sequitur, q̄ quæ per verticem trianguli Isosceles circumferentia ad angulos rectos cadit in basim, basim simul & angulum æqualibus comprehensum lateribus, bifariam secabit, & è conuerso, quod constat per hanc præcedentem demonstrationem.

X.

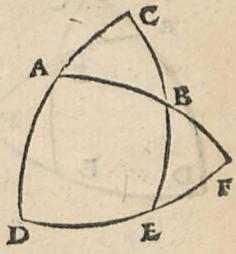
Bina quælibet triangula in eadem Sphæra æqualia latera habentia alterum alteri, æquales etiam angulos habebunt alterum alteri sigillatim. Quoniam enim trina vtrobiq; maximorum circularum segmenta, pyramides cōstituunt fastigia habentes in centro Sphæra, bases autem triangula, quæ sub rectis lineis circumferentias triangulorum connexorum subtendentibus plana continentur, suntq; illæ pyramides similes & æquales, per definitionem æqualium similium solidarum figurarum. Ratio autem similitudinis est, ut angulos quocunq; modo susceptos, habeant adinuicem æqualem alterum alterius, habebunt ergo angulos ipsa triangula æquales inuicem, & præsertim, qui generalius definiunt similitudinem figurarum, eas esse uolunt, quæcumq; similes habent declinationes, ac in eisdem angulos sibi inuicem æquales. E quibus manifestum esse pu- to, quod in sphæra triangula, quæ inuicem æquilatera sunt, similia esse, ut in planis.

XI.

Omne triangulum, cuius duo latera fuerint data cum aliquo angulo, datorum efficitur angulorum & laterum. Nam si latera data fuerint æqualia, erunt qui ad basim anguli æquales, & deducta à vertice ad basim circumferentia ad angulos rectos, facile patebunt quæ sita per porrisma nonæ. Sin autem fuerint data latera inæqualia, ut in triangulo a b c, cuius angulus a sit datus, cum binis lateribus, quæ uel comprehendunt datum angulum, uel non

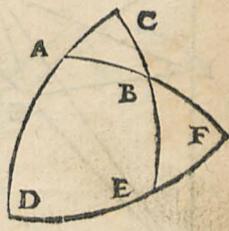
com-

comprehendunt. Sint ergo primum comprehendentes ipsum a b & a c data latera, & facto in c polo describatur circumferentia maximi circuli d e f, & compleantur quadrantes c a d & c b e, atq; a b productum secet d e in f signo. Ita quoq; in triangulo a d f datur a d latus reliquum quadrantis ex a c. Angulus etiam b a d ex c a b ad duos rectos. Nam eadem est ratio angulorum atq; dimensio, qui rectorum linearum ac planorum sectione contingunt, & d angulus est rectus. Igitur per quartam huius erit ipsum triangulum a d f datorum angulorum & laterum. Acrursus trianguli b e f inuentus est angulus f, & e rectus per polum sectione, latus quoq; b f, quo tota a b f excedit a b. Erit ergo per idem Theorema & b e f triangulum datorum angulorum & laterum. Vnde ex b e datur b c reliquum quadrantis & latus quaesitum, & ex e f reliquum totius d e f, quod d e, & est angulus c, atq; per angulum qui sub e b f, is qui ad verticem a b c quaesitus. Quod si loco a b assumatur c b, quod dato opponitur angulo, idem eueniet. Dantur enim reliqua quadrantium a d & b e, atq; eodem argumento duo triangula a d f & b e f datorum angulorum & laterum, ut prius, e quibus triangulum a b c propositum datorum fit laterum & angulorum, quod intendebatur.

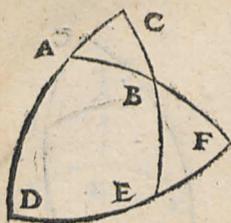


XII.

Adhuc autem si duo anguli utcumque dati fuerint cum aliquo latere, eadem euenient. Manente enim praefractione figurae prioris, sint trianguli a b c, duo anguli a c b & b a c dati cum latere a c, quod utriusque adiacet angulo. Porro si alter angulorum datorum rectus fuisset, poterant caetera omnia per quartum praecedens ratiocinando consequi. Hoc autem differre uolumus, quo minus sint recti. Erit igitur a d reliqua quadrantis ex a c d, & qui sub b a d angulus residuus ipsius b a c, e duobus rectis, atque d rectus. Igitur trianguli a f d per quartam huius dantur anguli cum lateribus.



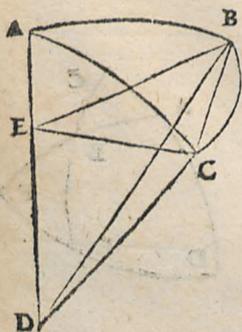
C ij Ac



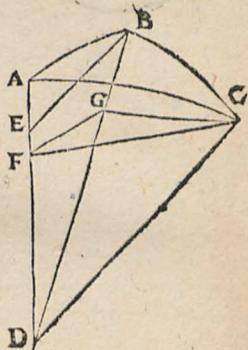
Ac per c angulum datum, datur d e circumferentia, & reliqua e f atq; b e f rectus, & f angulus communis vtriq; triangulo. Dantur itidem per quartam huius b e & b f, quibus cætera constabunt latera a b & b c quaesita. Cæterum si alter angulorum datorum lateri dato oppositus fuerit, utputa, si a b c angulus detur, loco eius q̄ sub a c b remanentibus cæteris, constabit eadem demonstratione totum a d f triangulum datis angulis & lateribus, ac particulare b e f triangulum similiter, quoniam propter angulum f vtriq; communem, & e b f qui ad verticem est dato, & e rectum cuncta etiam latera eius dari in præcedentibus demonstratur, è quibus tandem sequuntur eadem quæ diximus. Sunt enim hæc omnia mutuo semper nexu colligata, atq; perpetuo, vti formam Globi decet.

XIII.

Trianguli demum datis omnibus lateribus dantur anguli. Sint trianguli a b c omnia latera data, aio omnes quoq; angulos inueniri. Aut enim triangulum ipsum latera habebit æqualia, vel minime. Sint ergo primum æqualia a b, a c. Manifestum est, quod etiam semisses subtendentium dupla ipsorum æquales erunt. Sint ipsæ b e, c e, quæ se inuicem secabunt in e signo, propter æqualem earum distantiam à centro spheræ in sectione circulorum communi d e, quod patet per iij. definitionem tertij Euclidis, & eius conuersionem. Sed per ij. eiusdem libri propositionem d e b angulus rectus est in a b d plano, & d e c similiter in plano a c d. Igitur angulus b e c est angulus inclinationis ipsorum planorum per iij. definitionem vndecimi Euclidis, quem hoc modo inueniemus. Cum n. subtenta fuerit recta a linea b c, habebimus triangulum rectilineum b e c datorum laterum p̄ datas illorum circumferentias, fiet etiam datorum angulorum, & angulum b e c habebimus quesitum, hoc est, b a c sphericum, & reliquos per præcedentia. Quod si scalenon fuerit triangulum, vt in secunda figura, manifestum est, quod rectorum sub ipsis duplis semisses linearum minime se tangent. Quoniam si a c circumferentia maior fuerit

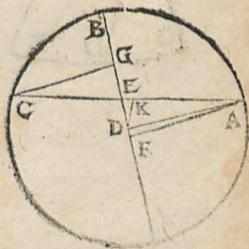


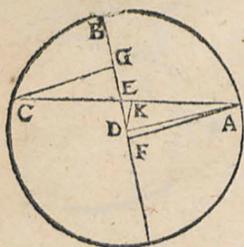
fuerit ipsi a b, sub ipsa ac duplicata semissis, quæ sit c f, cader
 inferius. Sin minor superior erit, prout accidit tales lineas
 propinquiores remonioresq; fieri à centro per xv. tertij
 Euclidis. Tunc autem ipsi b e parallelus agatur f g, quæ
 secet ipsam b d communem circulorum sectionem in g si-
 gno, & connectatur c g. Manifestum est igitur, quod e f g
 angulus est rectus, nempe æqualis ipsi a e b, atq; e f c di-
 midia subtensa existente c f dupli ipsius a c etiam rectus.
 Erit igitur c f g angulus sectionis ipsorum a b a c circulo-
 rum, quem idcirco etiam assequimur. Nam d f ad f g est,
 sicut d e ad e b, similes enim sunt d f g & d e b trianguli.
 Ac in eadem ratione est etiam d g ad d b, dabitur etiam
 ipsa d g in partibus quibus est d c Quinetiam qui
 sub g d c angulus, datus est per b c circumferentiam. Er-
 go per secundam planorum datur g c latus in eisdem par-
 tibus, quibus reliqua latera trianguli g f c plani, igitur per
 ultimam planorum habebimus g f c angulum, hoc est,
 b a c sphericum quæsitum, ac deinde reliquos per xi. sphe-
 ricorum percipiemus.



XIII.

Si data circumferentia circuli secetur utcumq; ut vtrumq;
 segmentorū sit minus semicirculo, & ratio dimidiæ subtend-
 entis vnius segmenti, ad dimidium subtendentis duplum
 alterius data fuerit, dabuntur etiam ipsorum segmentorum
 circumferentiæ. Detur enim circumferentia a b c, circa d
 centrum, quæ utcumq; secetur in b signo, ita tamen ut seg-
 menta sint semicirculo minora, fuerit autem ratio dimidiæ
 sub duplo a b ad dimidiam sub duplo b c aliquo modo
 in longitudine data, atq; etiam a b & b c dari circumferen-
 tias. Subtendatur enim a c recta, quam secet dimetiens in
 e signo, à terminis autem a c perpendiculares cadant ad
 ipsum dimetiens, quæ sint a f, c g, quas oportet esse semis-
 ses sub duplis a b & b c. Triangulorū igitur a e f & c e g
 rectangulorū anguli, qui ad e verticem sunt æquales, & ip-
 si propterea trianguli æquianguli ac similes, habent latera
 proportionalia æquales angulos respicientia. Vt a f ad
 C iii e g



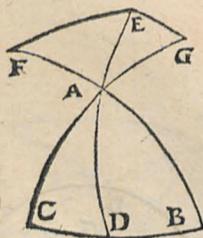


e g, sic a e ad e c. Quibus igitur numeris a f vel g c data fuerint, habebimus in iisdem a e & e c, dabitur ex his tota a e c in eisdem. Sed ipsa subtendens a b c circumferentiam datur in partibus, quibus quæ ex centro d e b, quibus etiam ipsius a c dimidia a k, & reliqua e k. Coniungantur d a & d k, quæ etiam dabuntur in eisdem partibus, quibus d b, tanquam semissis subtendentis reliquum segmentum ipsius a b c à semicirculo, comprehensum sub angulo d a k & angulus igitur a d k datur comprehensens, dimidiam a b c circumferentiam. Sed & trianguli duobus lateribus datis & angulo e k d recto, dabitur etiam e d k, hinc totus sub e d a angulus comprehensens a b circumferentiam, qua etiam reliqua c b constabit, quorum expetebatur demonstratio.

XV.

Trianguli datis omnibus angulis, etiam nullo recto, dantur omnia latera. Esto triangulum a b c, cuius omnes anguli sint dati, nullus autem eorum rectus. Aio omnia quoque latera eius dari. Ab aliquo enim angulorum ut a descendat per polos ipsius b c circumferentia a d, quæ secabit ipsum b c ad angulos rectos, ipsa quæ a d cadet in triangulum, nisi alter angulorum b uel c ad basim obtusus esset, & alter acutus, quod si accideret, ab ipso obtuso deducendus esset ad basim. Completis igitur quadrantibus b a f, c a g, d a e, factisque polis in b c, describantur circumferentia e f, e g. Erunt igitur & circa f g anguli recti. Triangulorum igitur rectum angulum habentium erit ratio dimidiæ quæ sub duplo a e, ad dimidiam sub duplo e f, quæ dimidia diametri sphaeræ ad dimidiam subtendentis duplum anguli e a f. Similiter in triangulo a e g angulum rectum habente g, semissis quæ sub duplo a e ad semissem, quæ sub duplo e g, eandem habebit rationem, quam dimidia diametri sphaeræ ad dimidiam, quæ duplum anguli e a g subtendit. Per æquam igitur rationem dimidia sub duplo e f ad dimidiam sub duplo e g ratio-

nem

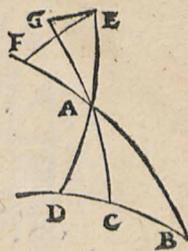


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nem habebit, quam semissis sub duplo angulo e a f ad semissem sub duplo anguli e a g. Et quoniam & f e, e g circumferentiæ datæ sunt, sunt enim residua, quibus anguli a & b differunt à rectis. Habebimus ergo ex his rationem angulorum e a f & e a g, hoc est, b a d ad c a d, qui illis ad verticem sunt, datos. Totus autem b a c datus est. Per præcedens igitur Theorema etiam b a d & c a d anguli dabuntur.

Deinde per quintum, latera a b, b c, a c, c d, totumq; b c assequemur.

FINIS.



CANONSVBTEN
SARVM IN CIRCULO RE-
ctarum linearum.

CANON SVB TENSARVM

	0	1	2	3	4				
1	2909	17743	2608	351502	2907	526267	2505	700467	59
2	5819	180341		359309		519170		703369	58
3	8727	183250		357716		512071		706270	57
4	11636	186158		360623		54980		709172	56
5	14544	189066		363530		517384		712073	55
6	17451	191975		366437		540789		714973	54
7	20362	194883		369344		54694		717876	2901 53
8	23271	197792		372251		546558		720777	52
9	26180	200700		375158		549503	2904	723678	51
10	29088	203608		378064		552407		726579	50
11	31997	206517		380971		555312		729480	49
12	34906	209425		383878		558216		732381	48
13	37815	212333		386785		561120		735282	47
14	40724	215241		389692		564024		738183	46
15	43632	218149		392598		566928		741084	45
16	46541	221057		395505		569832		743985	44
17	49450	223965		398412		572736		746886	43
18	52359	226873		401318		575640		749787	42
19	55268	229781		404225		578544		752688	2900 41
20	58177	232689		407131		581448		755588	40
21	61086	235597		410038		584352		758489	39
22	63995	238505		412944		57256		761389	38
23	66904	241413		415851		590160		764290	37
24	69813	244321		418757		593064		767180	36
25	72721	247229		421663		595967		770090	35
26	75630	250137		424570		598871		772991	34
27	78539	253045		427476		901775		775891	33
28	81448	255953		430382		604678		778791	32
29	84357	258861		433288		607582		781691	31
30	87265	261769		436194		610485		784591	30
	89	88		87		86		85	

IN CIRCULO RECTARVM LINEARVM.

13

	0	1	2	3	4	
31	90174	2909 264677	2908 439100	2906 513389		
32	93083	267585	442006	616292	787491	29
33	95992	270493	444912	619196	790391	28
34	98901	273401	447818	622099	793291	27
35	101809	276308	450724	625002	2903 796191	26
36	104718	279216	453630	627905	799090	25
37	07627	282124	456536	630808	801990	24
38	10536	285032	459442	633711	804889	23
39	13445	287940	462348	636614	807789	22
40	16353	290847	465253	639517	810688	21
41	19262	293755	468159	642420	813587	20
42	22171	296663	471065	645323	816486	1899 19
43	25079	299570	473970	648226	819385	18
44	27988	302478	476876	651129	822284	17
45	30896	305385	479781	654031	825183	16
46	33805	308293	482687	656934	828082	15
47	36714	311200	485592	659837	830981	14
48	39622	314108	488498	662739	833880	13
49	42531	317015	491403	665642	836778	12
50	45439	319922	494308	668544	839677	11
51	48348	322830	497214	671447	842575	10
52	51257	325737	500119	674349	845474	9
53	54165	328645	503024	677251	848372	8
54	57074	331552	505929	680153	851271	2902 7
55	59982	334459	508834	683055	854169	2898 6
56	62891	337367	511740	685957	857067	5
57	65799	340274	514645	688859	859965	4
58	68708	343181	517550	691761	862863	3
59	71616	346088	520455	694663	865761	2
60	74529	348995	523360	697565	868659	1
	89	88	87	86	85	0

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CANON SVBTENSARVM

5	6	7	8	9	
1874455	1048178	1221580	2887 1394612	1567215	59
2877553	1051071	1224467	1397492	1570091	58
3880250	1053964	1227354	1400373	1572964	57
4883148	1056857	1230231	1403253	1575837	56
5886045	1059749	1233128	1406133	1578705	55
6888943	1062642	2892 1236015	1409013	1581581	54
7891840	1065534	1238901	1411893	1584453	53
8894737	1068426	1241788	1414772	1587325	52
9897634	2897 1071318	1244674	1417652	1590197	51
10900531	1074210	1247560	1420531	2879 1593069	50
11903428	1077102	1250446	1423410	1595941	49
12906325	1079994	1253332	1426289	1598812	48
13909222	1082886	1256218	1429168	1601684	2871 47
14912119	1085778	1259104	1432047	1604555	46
15915016	1088669	1261990	1434926	1607426	45
16917913	1091561	1264876	1437805	1610297	44
17920809	1094452	1267761	1440684	1613168	2870 43
18923706	2896 1097344	1270647	1443562	1616038	42
19926602	1100235	1273532	2885 1446441	2878 1618909	41
20929498	1103126	1276417	1449319	1621779	40
21932395	1106017	1279302	1452197	1624649	39
22935291	1108908	1282187	1455075	1627519	38
23938187	1111799	1285072	1457953	1630389	37
24941083	1114690	2890 1287957	1460831	1633259	36
25943979	1117580	1290841	1463708	1636129	35
26946875	1118471	1293726	1466586	2877 1638999	34
27949771	1123361	1296610	2884 1469463	1641868	33
28952667	1126252	1299494	1472340	1644738	32
29955563	1129142	1302378	1475217	1647607	31
30958458	1132032	1305262	1478094	1650476	2869 30
84	83	82	81	80	

IN CIRCULO RECTARVM LINEARVM.

16

	5	6	7	8	9		
31	961354	2895 1134922	1308146	1480971	1653345		29
32	964249	1137912	1311030	1483848	1656214	2868	28
33	967144	1140702	1313914	1486724	1659082		27
34	970039	1143592	1316798	1489601	1661951	2876	26
35	972934	1146482	1319681	1492477	1664819		25
36	975829	1149372	1322564	1495353	1667687		24
37	978724	1152261	1325447	1498229	1670555		23
38	981619	1155151	1328330	1501105	1673423		22
39	984514	1158040	1331213	1503981	1676291		21
40	987408	1160929	2889 1334096	1506857	1679159		20
41	990303	1163818	1336979	1509733	1682027	2867	19
42	993198	1166707	1339862	1512608	1684894		18
43	996092	1169596	1342744	1515484	1687761	2875	17
44	998987	1172485	1345627	1518359	1690628		16
45	1001881	2894 1175374	1348509	1521234	1693495		15
46	1004775	1178263	3351392	2892 1524109	1696362		14
47	1007669	1181151	1354274	1526984	1699229		13
48	1010563	1184040	1357156	1529859	1702095		12
49	1013457	1186928	2889 1360038	1532734	1704962	2874	11
50	1016351	1189816	1362920	1535608	1707828		10
51	1019245	1192704	1365802	2891 1538482	1710694	2866	9
52	1022139	1195592	1368683	1541356	1713560		8
53	1025032	1198480	1371564	1544230	1716426		7
54	1027926	1201368	1374446	1547104	1719292		6
55	1030819	1204255	1377327	1549978	1722157	2865	5
56	1033713	2893 1207143	1380208	1552852	1725022		4
57	1036606	1210031	1383089	1555725	1727887		3
58	1039499	1212918	1385970	1558599	1730752	2873	2
59	1042392	1215806	1388851	2890 1561472	1733617		1
60	1045285	1218693	1391731	1564345	1736482		0
	84	83	82	81	80		

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CANON SVBTENSARVM

	10		11		12		13		14		
1	739 347	2864	1910945	2855	2081962		2252345		2422047	2822	59
2	742 211		1913800		2084807		2255179		2424863		58
3	745 075		1916655		2087652		2258013		2427685		57
4	747939		1919510		2090497		2260847	2833	2430507	2821	56
5	750303		1922365		2093342	2844	2263680		2433329		55
6	753667		1925220	2854	2096185		2266512		2436150		54
7	756531	2863	1928074		2099030		2269346		2438971		53
8	759394		1930928		2101874		2272179		2441792		52
9	762258		1933782		2104718		2275012	2832	2444613		51
10	765121		1936636	2853	2107562	2843	2277844		2447434	2820	50
11	767984		1939490		2110405		2280676		2450254		49
12	770847		1942344		2113248		2283508		2453074		48
13	773710		1945197		2116091		2286340		2455894		47
14	776573		1948050		2118934		2289163	2831	2458714		46
15	779437		1950903		2121777		2292004		2461533	2819	45
16	782298	2862	1953756		2124620		2294835		2464352		44
17	785160		1956609	2852	2127462	2842	2297666		2467171		43
18	788022		1959462		2130304		2300497		2469990		42
19	790884		1962314		2133146		2303328		2472809		41
20	793746		1965166		2135988		2306159	2830	2475628	2818	40
21	796608		1968018		2138830	2841	2308989		2478446		39
22	799469	2861	1970870		2141671		2311819		2481264		38
23	802331		1973722	2851	2144512		2314649		2484082		37
24	805192		1976574		2147353		2317479		2486900	2817	36
25	808053	2850	1979425		2150194		2320309		2489717		35
26	810914		1982276		2153035		2323138	2829	2492534		34
27	813774		1985127		2155876	2670	2325967		2495351		33
28	816634		1987979	2850	2158716		2328799		2498168	2816	32
29	819495		1990829		2161556		2331625		2500984		31
30	822355		1993679		2164396		2334454	2828	2503800		30
	79		78		77		76		75		

IN CIRCVLO RECTARVM LINEARVM.

10		11		12		13		14	
31	825215	1996530		2167236		2337282		2506616	
32	828075	1959380		2170076		2340110		2509432	29
33	830935	2002230		2172916	2839	2342938		2512248	28
34	833795	2005080		2175755		2345766		2515064	27
35	836684	2007930		2178594		2348594	2827	2517879	26
36	839513	2010780		2181433		2351421		2520694	25
37	842372	2013629	2849	2184272		2354248		2523509	24
38	845231	2016478		2187111	2838	2357075		2526324	23
39	848090	2019327		2189949		2359902		2529138	22
40	850949	2022176		2192787		2362729		2531952	21
41	853809	2025025		2195625	2837	2365555	2826	2534766	20
42	856666	2027874		2198463		2368381		2537580	19
43	859524	2030722	2848	2201300		2371207		2540393	18
44	862382	2033570		2204137		2374033		2543206	17
45	865240	2036418		2206974		2376855	2825	2546019	16
46	868098	2039266		2209811		2379684		2548832	15
47	870956	2042114	2837	2212648		2382589		2551645	14
48	873811	2044962		2215485		2385334		2554458	13
49	876670	2047809		2218322	2836	2388159		2557270	12
50	879527	2050656		2221158		2390983		2560082	11
51	882384	2053503		2223994		2393808	2824	2562894	10
52	885241	2056350		2226830		2396632		2565706	9
53	888098	2059197	2846	2229666		2399456		2568517	8
54	890954	2062043		2232502	2835	2402285		2571328	7
55	893810	2064889		2235337		2405104		2574139	6
56	896666	2077735		2238172		2407927	2823	2576950	5
57	899522	2070581		2241007		2410750		2579760	4
58	902378	2073427		2243842		2413573		2582570	3
59	905234	2076272	2845	2246677	2834	2416396		2585380	2
60	908090	2079117		2249511		2419219		2588190	1
									0
	79	78		77		76		75	

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CANON SVBTENSARVM

15		16		17		18		19		
1	2591000	2809	2759165		2926499	1	3092936	6	3258432	59
2	2593809		2761965		2929280		3095702		3261182	58
3	2596618		2764761	5	2932061		3098468		3263931	57
4	2599427		2767556		2934842		3101234	5	3266681	56
5	2602236		2770351		2937623	2780	3103999		3269430	55
6	2605045	8	2773146		2940403		3106764		3272179	54
7	2607853		2775941	4	2943183		3109529		3274927	53
8	2610661		2778735		2945963		3112294	4	3277675	52
9	2613469		2781529		2948743		3115058		3280423	51
10	2616277	7	2784323		2951523		3117822		3283171	50
11	2619084		2787117	3	2954301	2779	3120586	3	3285918	49
12	2621891		2789911		2957081		3123349		3288665	48
13	2624698		2792704		2959860		3126112		3291412	47
14	2627505		2795497		2962638	8	3128875		3294159	46
15	2630312	6	2798290		2965416		3131638	2	3296906	45
16	2633118		2801082	2	2968194		3134400		3299652	44
17	2635924		2803874		2970972		3137162		3302398	43
18	2638730		2806666		2973750	7	3139924		3305144	42
19	2641536		2809458		2976527		3142686		3307889	41
20	2644342	5	2812250	1	2979305	6	3145448	1	3310634	40
21	2647147		2815041		2982081		3148209		3313379	39
22	2649952		2817832		2984857		3150970		3316125	38
23	2652757		2820623		2987633		3153731	2860	3318867	37
24	2655562	4	2823414	2790	2990409		3156491		3321611	36
25	2658366		2826204		2993185	5	3159251		3324355	35
26	2661170		2828994		2995960		3162011	2759	3327098	34
27	2663974	3	2831784		2998735		3164770		3329841	33
28	2666777		2834574		3001510	4	3167529		3332585	32
29	2669580		2837364	2789	3004284		3170288		3335327	31
30	2672383		2840153		3007058		3173047	8	3338069	30
	74		73		72		71		70	

IN CIRCULO RECTARVM LINEARVM.

	15		16		17		18		19		30
	31267186		2842942		3009832		3175805		3340811		29
	322677989		2845731		3012606		3178565		3343553	1	28
	332680792		2848520	8	3015380	3	3181321		3346294		27
	342683595	2	2851308		3018153		3184079		3349035		26
	352686397		2854096		3020926		3186837		73351776	2740	25
	362689199		2856884		3023699		3189594		3354516		24
	372692001	1	2859672	7	3026472	2	3192351		3357256		23
	382694802		2862459		3029244		3195108		63359996		22
	392697603		2865246		3032016		3197864		3362736	2739	21
	402700404		2868033		3034788	1	3200620	5	3365475		20
	412703205	2300	2870819	6	3037559		3203375		3368214		19
	422706005		2873905		3040330		3206130		3370953		18
	432708805		2876391		3043101		3208885		3373691	9	17
	442711605		2879177		3045872		3211640		3376429		16
	452714405	2799	2881963	5	3048643	2770	3214395		3379167		15
	462717204		2884748		3051414		3217150	4	3381905	7	14
	472720003		2887533		3054183		3219904		3384642		13
	482722802		2890318		3056953		3222658		3387379		12
	492725601		2893103		3059723		3225412		3390116	6	11
	502728400	8	2895888	4	3062492	2769	3228165		3392852		10
	512731198		2898672		3065261		3230918		3395588		9
	522733996		2901456		3068030		3233671	2	3398324		8
	532736794		2904240		3070798	3	3236423		3401060	5	7
	542739592	7	2907023		3073566		3239175		3403795		6
	552742389		2909806		3076334		3241927		3406530		5
	562745186		2912589		3079102	2	3244679	1	3409265	4	4
	572747983		2915371		3081869		3247430		3411999		3
	582750780		2918153		3084636		3250181		3414733		2
	592753577	6	2920935		3087403		3252932	2750	3417467		1
	602756373		2923717		3090170		3255682		3420201		0
	74		73		72		71		70		

CANON SVBTENSARVM

20		21		22		23		24			
1	342 2934	2733	3586395	5	3748763	3	3909589	7	4070023	7	59
2	425667		3589110		3751460	6	3912666	7	4072680		58
3	428400		3591825		3754156		3915343		4075337	6	57
4	431133		3594540	4	3756852		3918020		4077993		56
5	433865	23	3597254		3759548		3920696	6	4080649		55
6	436597		3599968		3762243	5	3923372		4083305	5	54
7	439329	13	3602682		3764938		3926048	5	4085960		53
8	442060		3605395	3	3767633	4	3928723		4088615		52
9	444791		3608108		3770327		3931398	4	4091269	4	51
10	447522		3610821	2	3773021		3934072		4093923		50
11	450253	2730	3613533		3775715	3	3936746		4096577		49
12	452983		3616245		3778409		3939420	3	4099231	3	48
13	455713		3618957		3781101		3942093		4101884		47
14	458442	2729	3621669		3783794	2	3944766		4104537	2	46
15	461171		3624380		3786486		3947439		4107189		45
16	463900		3627091		3789178		3950112	2	4109841		44
17	466629	8	3629802	2710	3791870		3952784		4112493	1	43
18	469357		3632512		3794562	1	3955456		4115144		42
19	472085		3635222		3797253		3958128	1	4117795		41
20	474813	7	3637932		3799944	2690	3960799		4120446	2650	40
21	477540		3640642	2709	3802635		3963470	2680	4123096		39
22	480267		3643351		3805345		3966140		4125746		38
23	482994		3646060		3808015	2689	3968810		4128395		37
24	485724		3648768	8	3810704		3971480		4131044		36
25	488447	6	3651476		3813393		3974149	2669	4133693	2649	35
26	491173		3654184		3816082		3976818		4136341		34
27	493899		3656892	7	3818771	8	3979487	8	4138989		33
28	496624		3659599		3821459		3982155		4141637	8	32
29	499349		3662306	6	3824147	7	3984823		4144284		31
30	502075		3665012		3826834		3987491		4146932	7	30
69		68		67		66		65			

IN CIRCVLO RECTARVM LINEARVM.

17

20		21		22		23		24		
31	3504799		3667718		3829521		3990159	7	4149579	
32	3507523		3670424		3832208		3992826		4152226	6
33	3510247		3673130	5	3834895	6	3995493		4154872	27
34	3512971		3675835		3837581		3998157	6	4157518	5
35	3515694		3678541		3840267		4000825		4160163	25
36	3518417		3681246		3842953	5	4003491	5	4162808	24
37	3521140		3683951	4	3845639		4006156		4165453	4
38	3523862		3686655		3848323		4008821		4168097	22
39	3526584		3689359	3	3851008	4	4011486	4	4170741	21
40	3529306		3692062		3853692		4014150		4173385	3
41	3532027		3694765		3856376		4016814		4176028	19
42	3534748		3697468	2	3859060	3	4019478	3	4178671	18
43	3537469		3700170		3861743		4022141		4181313	2
44	3540190	2720	3702872		3864426		4024804		4183955	16
45	3542910		3705574		3867109	2	4027467		4186597	15
46	3545630		3708276	1	3869791		4030130	2	4189239	1
47	3548350		3710977		3872473		4032792		4191880	13
48	3551070		3713678		3875155		4035454	1	4194521	12
49	3553789	2719	3716379		3877837	1	4038115		4197162	2640
50	3556508		3719080	2700	3880518		4040776		4199802	10
51	3559227	8	3721780		3883199		4043437	2660	4202442	9
52	3561945		3724480		3885880	2680	4046097		4205081	2659
53	3564663	7	3727179	2699	3888560		4048757	2659	4207720	8
54	3567380		3729878		3891240	2679	4051416		4210359	7
55	3570097		3732577	8	3893919		4054075		4212997	8
56	3572814		3735275		3896598		4056734	8	4215635	5
57	3575531	6	3737973		3899277	8	4059392		4218273	4
58	3578247		3740671		3901955		4062050		4220910	7
59	3580963		3743369	7	3904633		4064708		4223547	3
60	3583679		3746066		3907311		4067366		4226183	2
	69		68		67		66		65	1

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CANON SVBTENSARVM

25		26		27		28		29			
1	4228819	2636	4386326	2614	4542497	2591	4697284	2568	4850640	2544	50
2	4231455	5	4388940	4	4545088	1	4699852	8	4853184	3	58
3	4234090	5	4391554	4	4547679	1	4702415	7	4855727	3	57
4	4236725	5	4394167	3	4540270	2590	4704986	7	4858270	2	56
5	4239360	5	4397780	3	4552860	0	4707553	7	4860812	2	55
6	4241994	4	4399392	2	4555450	0	4710119	6	4863354	1	54
7	4244628	4	4402004	2	4558039	2589	4712685	6	4865895	1	53
8	4247272	4	4404616	2	4560628	2	4715250	5	4868436	1	52
9	4249895	3	4407227	1	4563216	9	4717815	5	4870977	2540	51
10	4252528	3	4409838	1	4565804	8	4720380	5	4873517	0	50
11	4255161	2	4412449	1	4568392	8	4722944	4	4876057	2539	49
12	4257793	2	4415059	2610	4570979	7	4725508	4	4878596	9	48
13	4260425	1	4417669	0	4573566	7	4728071	3	4881135	9	47
14	4263056	1	4420278	2609	4576153	7	4730634	3	4883674	8	46
15	4265687	1	4422887	9	4578739	6	4733197	3	4886212	8	45
16	4268318	1	4425496	9	4581325	6	4735759	2	4888750	7	44
17	4270949	2610	4428104	8	4583911	6	4738321	2	4891287	7	43
18	4273579	0	4430712	8	4586496	5	4740882	1	4893824	7	42
19	4276209	2629	4433320	8	4589081	5	4743443	1	4896361	6	41
20	4278838	9	4435927	7	4591665	4	4746004	2560	4898897	6	40
21	4281467	9	4438534	7	4594249	4	4748564	0	4901433	5	39
22	4274096	9	4441140	6	4596833	4	4751124	2559	4903968	5	38
23	4286724	8	4443746	6	4599416	3	4753683	9	4906503	4	37
24	4289352	8	4446352	6	4601999	3	4756242	9	4909037	4	36
25	4291979	7	4448957	5	4604581	2	4758801	8	4911571	4	35
26	4294606	7	4451562	5	4607163	2	4761359	8	4914105	3	34
27	4297233	7	4454167	5	4609744	1	4763917	7	4916638	3	33
28	4299859	6	4456771	4	4612325	1	4766474	7	4919171	2	32
29	4302485	6	4459375	4	4614906	1	4769031	7	4921703	2	31
30	4305111	6	4461978	3	4617486	2580	4771588	6	4924235	2	30
	64		63		62		61		60		

IN CIRCULO RECTARVM LINEARVM.

	35		36		37		38		39		
31	4307736		4484581	3	4620066	0	4774144	6	4926767		1
32	4310367	5	4457184	3	4622646	0	4776700	5	4929298		1
33	4312996	5	4469786	2	4625225	2579	4779255	3	4931829	2530	27
34	4315610		4472388	2	4627804	8	4781810	5	4934359		0
35	4318234	4	4474990	2	4630382	8	4784365	4	4936889	2529	25
36	4320858	4	4477591	1	4632960	8	4786919	4	4939418		9
37	4323481		4480192	1	4635538	7	4789473	3	4941947		9
38	4326104	3	4482792	2600	4638115	7	4792026	3	4944476		8
39	4328726	2	4485392	0	4640692	6	4794579	3	4947004		8
40	4331348		4487992	0	4643268	6	4797132	2	4949532		7
41	4333970	2	4490591	2599	4645844	6	4799684	2	4952059		7
42	4336591	1	4493190	9	4648420	5	4802236	1	4954586		7
43	4339212		4495788	8	4650995	5	4804787		4957113		6
44	4341833	1	4498386	8	4653570	5	4807338	2550	4959639		6
45	4344453	2620	4500984	8	4656145	4	4809888	0	4962165		5
46	4347073		4503582	8	4658719	4	4812438	0	4964690		5
47	4349693	0	4506179	7	4661293	3	4814988	2549	4967215		5
48	4352312	2619	4508776	7	4663866	3	4817537	9	4969740		4
49	4354931	9	4511372	6	4666439	3	4820086		4972264		4
50	4357549	8	4513968	6	4669012	2	4822635	9	4974788		3
51	4360167	8	4516563	5	4671584	2	4825183	8	4977311		3
52	4362785		4519158	5	4674150	1	4827731	7	4979834		2
53	4365402	7	4521753	5	4676727	1	4830278	7	4982356		2
54	4368019	7	4524347	4	4679298	1	4832825	6	4984878		1
55	4370635		4526941	4	4671869	2570	4835371	6	4987399		1
56	4373251	6	4529535	4	4684439	0	4837917	5	4989920		1
57	4375867	6	4532128	3	4687009	0	4840462	5	4992441	2520	3
58	4378482		4534721	3	4689578	2569	4843007	5	4994961		0
59	4381097	5	4537313	2	4692147	9	4845552	4	4997481	2519	1
60	4383712	5	4539905	2	4694716	9	4848096	4	4000000		9
	64		63		62		61		60		

CANON SVBTENSARVM

	30		31		32		33		34		
1	5002519	2519	5152874	2493	5301659	2466	5448829	2439	5594340	2411	59
2	5005038		5155367		5304125		5451263		5596751	2410	58
3	5007556		5157859		5306591		5453707		5599161	0	57
4	5010074		5160351		5309056		5456145		5601571	0	56
5	5012591		5162843		5311521		5458583		5603981	2409	55
6	5015108		5165334		5313985		5461020		5606390	8	54
7	5017624		5167825	2490	5316449		5463456		5608798	8	53
8	5020190		5170315	0	5318913		5465802		5611206	8	52
9	5022650		5172805	2489	5321376		5468328		5613614	7	51
10	5025171		5175294		5323839		5470763		5616021	6	50
11	5027686		5177783		5326301		5473198		5618427	6	49
12	5030200		5180271		5328763		5475632		5620833	6	48
13	5032714		5182759		5331224		5478066		5623239	5	47
14	5035227		5185246		5333685	2460	5480499		5625644	5	46
15	5037740		5187733		5336145	0	5482932		5628049	4	45
16	5040253		5190220		5338605	0	5485364		5630453	4	44
17	5042765		5192706		5341065	2459	5487796		5632857	3	43
18	5045277		5195192		5343524	9	5490228		5635260	3	42
19	5047788		5197667		5345983		5492659		5637661	3	41
20	5050299	2510	5200162		5348441		5495090	2430	5640066	2	40
21	5052809	0	5202646		5350898		5497520	0	5642468	1	39
22	5055319	0	5205130		5353355		5499950	2429	5644869	1	38
23	5057829	2509	5207614		5355812		5502379	9	5647270	2400	37
24	5060338	9	5210097		5358268		5504808	8	5649670	0	36
25	5062847		5212580		5360724		5507236		5652070	2399	35
26	5065355		5215062		5363179		5509664		5654469	9	34
27	5067863		5217544		5365634		5512091		5656868	8	33
28	5070370		5220025		5368088		5514518		5659266	8	32
29	5072877		5222506	2480	5370542		5516944		5661664	8	31
30	5075384		5224986	0	5372996		5519370		5664062	7	30
	59		58		57		56		55		

IN CIRCVLO RECTARVM LINEARVM.

30		31		32		33		34			
31	5077890	6	227466	0	375449	3	5521795	5	666459	7	29
32	5080396	5	229946	2479	377902	2	5524220	5	668856	6	28
33	5082901	5	232425	9	380354	2	5526645	4	671252	9	27
34	5085406	5	234904	8	382806	2	5529069	4	673648	5	26
35	5087911	4	237382	8	385258	1	5531491	3	676043	5	25
36	5090415	4	239860	7	387709	2450	5533916	2	678438	4	24
37	5092919	3	242337	7	390159	0	5536338	2	680832	4	23
38	5095422	3	244614	6	392609	2449	5538760	2	683226	3	22
39	5097925	2	247290	6	395058	9	5541182	1	685619	3	21
40	5100427	2	249766	5	397507	8	5543603	1	688012	2	20
41	5102929	1	252241	5	399855	8	5546024	2420	690404	2	19
42	5105430	1	254716	5	402403	8	5548444	0	692796	1	18
43	5107931	2500	257191	4	404851	7	5550864	2419	695187	1	17
44	5110431	0	259665	4	407298	7	5553283	9	697578	2390	16
45	5112931	0	262139	3	409745	6	5555702	8	699968	0	15
46	5115431	2499	264612	3	412191	6	5558120	8	702358	2389	14
47	5117930	9	267085	2	415637	5	5560538	8	704747	9	13
48	5120429	8	269557	2	417082	5	5562956	7	707136	8	12
49	5122927	8	272029	2	419527	5	5565373	7	709524	8	11
50	5125425	7	274501	1	421972	4	5567790	6	711912	7	10
51	5127922	7	276972	1	424416	3	5570206	6	714269	7	9
52	5130419	7	279443	2476	426859	3	5572622	5	716686	6	8
53	5132916	6	281913	6	429302	3	5575037	5	719072	6	7
54	5135412	6	284383	2469	431745	2	5577452	4	721458	6	6
55	5137908	5	286852	9	434187	2	5579866	4	723844	5	5
56	5140403	5	289321	9	436629	1	5582280	3	726229	4	4
57	5142898	5	291789	8	439070	2440	5584693	3	728613	4	3
58	5145393	4	294257	8	441510	0	5587106	2	730997	4	2
59	5147887	4	296725	8	443950	0	5589518	1	733381	3	1
60	5150381	3	299192	7	446390	2439	5591929	1	735764	3	0
	59		58		57		56		55		

CANON SVBTENSARVM

35		36		37		38		39			
1	5738147	2382	5880205	2333	6020473	2323	6158907	2291	6295464	2260	59
2	5740529	2	5882558	2	6022796	1	6161198	1	6297724	2259	58
3	5742911	1	5884910	2	6025118	1	6163489	1	6299981	9	57
4	5745292	2380	5887262	1	6027439	1	6165780	2290	6302242	9	56
5	5747672	0	5889613	1	6029760	2320	6168070	2289	6304501	8	55
6	5750052	0	5891964	2350	6032080	0	6170259	9	6306759	8	54
7	5752432	2377	5894314	0	6034400	2319	6172648	8	6309016	7	53
8	5754811	9	5896664	2349	6036719	9	6174936	8	6311273	6	52
9	5757190	3	5899013	8	6039038	9	6177224	8	6313529	5	51
10	5759568	8	5901361	8	6041357	8	6179512	7	6315784	5	50
11	5761946	7	5903709	7	6043675	7	6181799	6	6318039	4	49
12	5764323	7	5906056	7	6045992	7	6184085	6	6320293	4	48
13	5766700	6	5908403	7	6048309	6	6186371	5	6322547	3	47
14	5769076	6	5910750	6	6050625	5	6188656	4	6324800	3	46
15	5771452	5	5913096	6	6052940	5	6190940	4	6327053	2	45
16	5773827	5	5915442	5	6055255	5	6193224	4	6329305	2	44
17	5776202	4	5917787	5	6057570	4	6195508	3	6331557	1	43
18	5778576	4	5920132	4	6059884	4	6197791	3	6333808	1	42
19	5780950	4	5922476	4	6062198	3	6200074	2	6336059	1	41
20	5783324	3	5924820	3	6064511	3	6202356	2	6338310	2250	40
21	5785697	2	5927163	2	6066824	2	6204638	1	6340560	2249	39
22	5788069	2	5929505	2	6069136	2	6206919	2280	6342809	9	38
23	5790441	1	5931847	2	6071448	1	6209199	0	6345058	8	37
24	5792812	1	5934189	1	6073759	2310	6211479	2279	6347306	7	36
25	5795183	2379	5936530	1	6076069	0	6213758	9	6349553	7	35
26	5797553	0	5938871	2340	6078379	2309	6216037	8	6351800	6	34
27	5799923	2369	5941211	0	6080688	9	6218315	8	6354046	6	33
28	5802292	9	5943551	2330	6082997	9	6220593	7	6356292	5	32
29	5804661	9	5945890	8	6085306	8	6222870	6	6358537	5	31
30	5807030	8	5948228	8	6087614	8	6225146	6	6360782	4	30
54		53		52		51		50			

IN CIRCVLO RECTARVM LINEARVM

	35		36		37		38		39		
31	5809398	8	5950466	8	6089922	7	6227422	6	6363026	4	29
32	5811766	7	5952904	7	6092229	7	6229698	5	6365270	3	28
33	5814133	6	5955241	7	6094536	6	6231973	5	6367513	3	27
34	5816499	6	5957578	6	6096842	5	6234248	4	6369756	3	26
35	5818865	5	5959914	6	6099147	5	6236522	4	6371999	2	25
36	5821230	5	5962250	5	6091452	4	6238796	3	6374241	1	24
37	5823595	4	5964585	4	6103756	4	6241069	3	6376482	2240	23
38	5825959	4	5966919	4	6106060	4	6243342	2	6378722	0	22
39	5828323	4	5969253	3	6108364	3	6245614	1	6380962	2239	21
40	5830687	3	5971586	3	6110667	3	6247885	1	6383201	9	20
41	5833050	2	5973919	2	6112970	2	6250156	2270	6385440	8	19
42	5835412	2	5976251	2	6115272	1	6252426	0	6387678	8	18
43	5837774	2	5978583	2	6117573	2300	6254696	0	6389916	7	17
44	5840136	1	5980915	1	6119873	0	6256966	2269	6392153	7	16
45	5842497	1	5983246	1	6122173	0	6259235	8	6394390	6	15
46	5844858	2360	5985577	2230	6124473	2299	6261503	8	6396626	6	14
47	5847218	0	5987907	0	6126772	9	6263771	7	6398862	5	13
48	5849578	2359	5990237	2329	6129071	8	6266038	7	6401097	5	12
49	5851937	8	5992566	8	6131369	8	6268305	7	6403332	4	11
50	5854295	8	5994894	8	6133667	7	6270572	6	6405566	3	10
51	5856653	7	5997222	7	6135964	7	6272838	5	6407799	3	9
52	5859010	7	5999549	7	6138261	6	6275103	5	6410032	2	8
53	5861367	7	6001876	6	6140557	6	6277368	4	6412264	2	7
54	5863724	6	6004202	6	6143853	5	6279632	3	6414496	2	6
55	5866080	6	6006528	5	6145148	4	6281895	3	6416728	1	5
56	5868436	5	6008853	5	6147442	4	6284158	2	6418959	2230	4
57	5870791	4	6011178	4	6149746	4	6286420	2	6421189	0	3
58	5873145	4	6013502	4	6152030	3	6288682	1	6423419	2229	2
59	5875499	3	6015826	4	6154323	2	6290943	1	6425648	8	1
60	5877852	3	6018150	3	6156615	2	6293204	0	6427876	8	0
	54		53		52		51		50		

CANON SVBTENSARVM

40		41		42		43		44			
1	6430104	2227	6562785	2194	6693468	1	6822111	2126	6948676	1	59
2	6432331	7	6564979	4	6695625	2160	6824237	6	6950767	1	58
3	6434558	7	6567173	4	6697789	0	6826363	6	6952858	1	57
4	6436785	6	6569367	3	6699949	2159	6828489	5	6954949	2090	56
5	6439011	5	6571560	3	6702108	9	6830614	4	6957039	2089	55
6	6441236	5	6573753	2	6704267	8	6832738	3	6959128	8	54
7	6443461	4	6575943	1	6706425	7	6834861	3	6961216	8	53
8	6445685	4	6578136	2190	6708582	7	6836984	3	6963304	8	52
9	6447909	3	6580326	0	6710739	6	6839107	2	6965392	7	51
10	6450132	3	6582516	2189	6712895	6	6841229	1	6967479	6	50
11	6452355	2	6584703	9	6715051	5	6843350	1	6969565	6	49
12	6454577	2	6586894	8	6717206	5	6845471	2120	6971651	5	48
13	6456799	1	6589082	8	6719361	4	6847591	0	6973736	5	47
14	6459020	2220	6591270	8	6721515	3	6849711	2119	6975821	4	46
15	6461240	0	6593458	7	6723668	3	6851830	9	6977905	3	45
16	6463460	2219	6595645	6	6725821	2	6853949	8	6979988	3	44
17	6465679	9	6597831	5	6727973	2	6856067	7	6982071	2	43
18	6467896	8	6600016	5	6730125	1	6858184	7	6984153	2	42
19	6470116	7	6602201	5	6732276	1	6860301	6	6986235	1	41
20	6472333	7	6604386	4	6734427	2150	6862417	6	6988316	2080	40
21	6474550	6	6606570	3	6736577	2149	6864533	5	6990396	0	39
22	6476766	6	6608753	3	6738726	9	6866648	4	6992476	2079	38
23	6478982	6	6610936	2	6740875	9	6868762	4	6994555	9	37
24	6481198	5	6613118	2	6743024	8	6870876	3	6996634	8	36
25	6483413	5	6615300	1	6745172	7	6872989	3	6998712	7	35
26	6485628	4	6617481	2180	6747319	6	6875102	2	7000780	7	34
27	6487842	3	6619661	0	6749465	6	6877214	1	7002866	6	33
28	6490055	3	6621841	0	6751611	6	6879325	1	7004942	6	32
29	6492265	2	6624021	2179	6753757	5	6881436	2110	7007018	5	31
30	6494480	2	6626200	9	6755902	5	6883546	0	7009093	4	30
	49		48		47		46		45		

IN CIRCVLO RECTARVM LINEARVM.

	60		61		62		63		64	
31	8704989									
32	8706420	1	8789559	7	8871451	2	8950642	7	9027105	1
33	8707851	1430	8790946	6	8872793	1	8951919	6	9028356	1250
			8792332	5	8874134	1	8953235	5	9029606	0
34	8709281	1435	8793717	5	8875475	1340	8954530	4	9030856	1249
35	8710710	8	8795102	4	8876815	1339	8955824	3	9032105	8
36	8712138	7	8796486	3	8878154	8	8957117	3	9033353	7
37	8713565	7	8797859	2	8879492	8	8958410	2	9034600	7
38	8714992	6	8799251	1	8880830	7	8959702	2	9035847	6
39	8716418	6	8800633	2	8882167	6	8960994	1	9037093	5
40	8717844	5	8802014	1380	8883503	5	8962285	1290	9038338	4
41	8719269	4	8803394	1379	8884838	4	8963575	1280	9039582	3
42	8720693	3	8804773	8	8886172	4	8964864	8	9040825	3
43	8722116	2	8806152	8	8887506	3	8966152	6	9042068	2
44	8723538	2	8807530	7	8888839	2	8967440	7	9043310	1
45	8724960	1	8808907	6	8890171	1	8968727	6	9044551	1240
46	8726381	1420	8810283	6	8891502	1	8969913	6	9045791	0
47	8727801	0	8811659	5	8892833	1330	8971299	5	9047031	1239
48	8729221	1419	8813034	4	8894163	1329	8972584	4	9048270	8
49	8730640	8	8814408	3	8895492	9	8973868	3	9049508	8
50	8732058	7	8815783	2	8896821	8	8975151	2	9050746	7
51	8733475	6	8817155	2	8898149	7	8976433	2	9051983	6
52	8734891	6	8818527	1	8899476	6	8977715	1	9053219	5
53	8736307	5	8819898	1370	8900802	5	8978996	1280	9054454	4
54	8737722	5	8821268	0	8902127	5	8980276	1279	9055688	4
55	8739137	4	8822638	1369	8903452	4	8981555	8	9056922	3
56	8740551	3	8824007	8	8904776	3	8982833	8	9058155	2
57	8741964	2	8825375	8	8906099	3	8984111	7	9059387	1
58	8743376	1	8826743	7	8907422	2	8985388	6	9060618	1230
59	8744787	1410	8828110	6	8908744	1	8986664	5	9061898	0
60	8746197	0	8829476	5	8910065	1320	8987940	5	9063078	1229
	29		28		27		26		25	

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CANON SVBTENSARVM

65		66		67		68		69			
1	9064307	1228	9136638	2	9206185	5	9272928	9	9336846	1	59
2	9065535	8	9137820	1	9207321	5	9274017	8	9337887	1	58
3	9066763	7	9139001	0	9208456	4	9275105	7	9338928	1040	57
4	9067990	6	9140181	1180	9209590	3	9276192	6	9339955	1019	56
5	9069216	5	9141361	1179	9210723	2	9277278	5	9341007	8	55
6	9070441	4	9142540	8	9211855	1	9278363	4	9342045	7	54
7	9071665	4	9143718	7	9212986	11	9279448	4	9343084	7	53
8	9072889	3	9144895	7	9214117	1130	9280532	3	9344119	6	52
9	9074112	2	9146072	6	9215247	1129	9281615	2	9345155	5	51
10	9075334	1	9147248	5	9216376	8	9282697	1	9346190	4	50
11	9076555	0	9148423	4	9217504	7	9283778	1	9347224	3	49
12	9077775	1220	9149597	3	9218631	7	9284859	1080	9348257	2	48
13	9078995	1219	9150770	3	9219758	6	9285939	1079	9349289	2	47
14	9080214	8	9151943	2	9220884	6	9287018	8	9350321	1	46
15	9081432	8	9153115	1	9222010	5	9288096	7	9351352	1030	45
16	9082649	7	9154286	1	9223135	4	9289173	7	9352382	1020	44
17	9083866	6	9155457	1170	9224259	3	9290250	6	9353411	9	43
18	9085082	5	9156627	1169	9225384	2	9291326	5	9354440	8	42
19	9086297	5	9157796	8	9226504	1	9292401	5	9355468	7	41
20	9087512	4	9158964	7	9227625	1	9293476	4	9356495	6	40
21	9088726	3	9160131	6	9228746	1120	9294550	3	9357521	5	39
22	9089939	2	9161297	6	9229866	1119	9295623	2	9358546	5	38
23	9091151	1	9162463	5	9230985	8	9296695	1	9359571	4	37
24	9092362	1210	9163628	4	9232103	7	9297766	1070	9360595	3	36
25	9093572	1209	9164792	3	9233220	7	9298836	1069	9361618	2	35
26	9094781	9	9165955	2	9234337	6	9299905	9	9362640	2	34
27	9095990	8	9167117	2	9235453	5	9300974	8	9363662	1	33
28	9097198	8	9168279	1	9236568	4	9302042	7	9364683	1020	32
29	9098406	7	9169440	1	9237682	3	9303109	7	9365703	1019	31
30	9099613	6	9170601	1160	9238795	3	9304176	6	9366722	8	30
	24		23		22		21		20		

IN CIRCVLO RECTARVM LINEARVM.

	65		66		67		68		69		
31	9100819	5	9171761	1152	9239900	2	9305242	5	9367740	8	29
32	9102024	4	9172920	8	9241020	1	9306307	4	9368758	7	28
33	9103228	4	9174078	7	9242131	1	9307371	3	9369775	6	27
34	9104432	3	9175235	6	9243242	1110	9308434	3	9370791	5	26
35	9105635	2	9176391	6	9244352	1105	9309497	2	9371806	4	25
36	9106837	1	9177547	5	9245461	8	9310559	1	9372820	4	24
37	9108038	0	9178702	4	9246569	7	9311620	1060	9373834	3	23
38	9109238	1200	9179856	3	9247676	6	9312680	1059	9374847	2	22
39	9110438	1199	9181009	2	9248782	6	9313739	9	9375859	1	21
40	9111637	8	91822161	2	9249881	5	9314799	8	9376870	1010	20
41	9112835	7	9183313	1	9250993	4	9315856	7	9377880	1009	19
42	9114032	7	9184464	1150	9252097	3	9316913	6	9378889	9	18
43	9115229	6	9185614	1149	9253200	3	9317969	5	9379898	8	17
44	9116425	5	9186763	9	9254303	2	9319024	5	9380906	9	16
45	9117620	4	9187912	8	9255405	1	9320079	4	9381913	6	15
46	9118814	3	9189060	7	9256506	0	9321133	3	9382919	6	14
47	9120007	3	9190207	6	9257606	1100	9322186	2	9383925	5	13
48	9121200	2	9191353	6	9258706	1099	9323238	2	9384930	4	12
49	9122392	2	9192499	5	9259805	8	9324290	1	9385934	3	11
50	9123584	1	9193644	4	9260903	7	9325341	1050	9386937	2	10
51	9124775	1190	9194788	3	9262000	6	9326391	1049	9387939	2	9
52	9125965	1189	9195931	2	9263096	6	9327440	8	9388941	1	8
53	9127154	8	9197073	2	9264192	5	9328488	7	9389942	1000	7
54	9128342	7	9198215	1	9265287	4	9329535	7	9390942	999	6
55	9129529	7	9199356	1140	9266381	3	9330582	6	6391941	9	5
56	9130716	8	9200495	1139	9267474	2	9331628	5	9392940	8	4
57	9131902	5	9201635	9	9268566	2	9332673	4	9393938	7	3
58	9133087	4	9202774	8	9269658	1	9333717	4	9394935	6	2
59	9134271	4	9203912	8	9270749	1090	9334761	3	9395931	5	1
60	9135455	3	9205040	5	9271839	1089	9335804	2	9396926	7	0
	24		23		22		21		20		

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CANON SVBTENSARVM

70		71		72		73		74			
1	9397921	4	9456133	6	9511464	8	9563899	849	9613418	1	99
2	9398915	3	9457079	5	9512363	7	9564747	9	9614219	800	98
3	9399908	2	9458024	4	9513259	6	9565596	8	9615019	799	97
4	9400900	1	9458968	3	9514155	5	9566444	7	9615818	8	96
5	9401891	1	9459911	3	9515050	4	9567291	6	9616616	7	95
6	9402882	990	9460854	2	9515944	4	9568137	5	9617413	6	94
7	9403872	989	9461796	1	9516838	3	9568982	4	9618209	6	93
8	9404861	8	9462737	940	9517731	2	9569826	4	9619005	5	92
9	9405849	7	9463677	939	9518623	1	9570670	3	9619800	4	91
10	9406836	6	9464616	9	9519514	0	9571513	2	9620594	1	90
11	9407822	6	9465555	8	9520404	990	9572355	1	9621387	2	89
12	9408808	5	9466493	7	9521294	899	9573196	840	9622179	2	88
13	9409793	4	9467430	6	9522183	8	9574036	839	9622971	1	87
14	9410777	3	9468366	5	9523071	7	9574875	9	9623762	790	86
15	9411760	2	9469301	5	9523958	6	9575714	8	9624552	789	85
16	9412742	2	9470236	4	9524844	6	9576552	7	9625341	8	84
17	9413724	1	9471170	3	9525730	5	9577389	6	9626129	8	83
18	9414705	0	9472103	2	9526615	4	9578225	6	9626917	7	82
19	9415685	980	9473035	2	9527499	3	9579061	5	9627704	6	81
20	9416665	979	9473967	1	9528382	2	9579898	4	9628490	5	80
21	9417644	8	9474898	930	9529264	2	9580730	3	9629275	4	79
22	9418622	7	9475828	929	9530146	1	9581563	2	9630059	4	78
23	9419599	6	9476757	8	9531027	830	9582395	1	9630843	3	77
24	9420575	5	9477685	7	9531907	829	9583226	1	9631626	2	76
25	9421550	5	9478612	7	9532786	8	9584057	830	9632408	1	75
26	9422525	4	9479539	6	9533664	7	9584887	829	9633189	780	74
27	9423499	3	9480465	5	9534541	7	9585716	8	9633969	779	73
28	9424472	2	9481390	4	9535418	6	9586544	7	9634748	9	72
29	9425444	1	9482314	3	9536294	5	9587371	6	9635527	8	71
30	9426415	1	9483237	3	9537169	4	9588197	6	9636305	7	70
	19.		18.		17.		16.		15.		

IN CIRCULO RECTARVM LINEARVM!

	70	71	72	73	74		
31	9427386	970 9484160	2 9538043	4 9589023	5 9637082	6	29
32	9428356	969 9485082	1 9538917	3 9589848	4 9637858	5	28
33	9429325	8 9486003	920 9539790	2 9590672	3 9638633	4	27
34	9430293	7 9486923	919 9540662	1 959149	3 9639408	4	26
35	9431260	7 9487842	9 9541533	870 9592318	2 9640182	3	25
36	9432227	6 9488761	8 9542403	869 9593146	1 9640955	2	24
37	9433193	5 9489679	7 9543272	9 9593961	820 9641727	1	23
38	9434158	4 9490596	6 9544141	8 9594781	819 9642498	0	22
39	9435122	3 9491512	5 9545009	7 9595600	9 9643268	770	21
40	9436085	3 9492427	4 9545876	6 9596415	8 9644018	769	20
41	9437048	2 9493341	4 9546742	5 9597237	7 9644807	8	19
42	9438010	1 9494255	3 9547607	5 9598054	6 9645575	7	18
43	9438971	960 9495168	2 9548472	4 9598870	5 9646342	6	17
44	9439931	959 9496080	1 9549336	3 9599685	4 9647108	5	16
45	9440890	9 9496991	1 9550199	2 9600495	4 9647873	5	15
46	9441849	8 9497902	910 9551061	1 9601313	3 9648638	4	14
47	9442807	7 9498812	909 9551922	1 9602126	2 9649402	3	13
48	9443764	7 9499721	89 9552783	860 9602936	1 9650165	2	12
49	9444720	6 9500629	7 9553643	859 9603749	810 9650927	2	11
50	9445676	5 9501536	7 9554502	8 9604559	809 9651689	1	10
51	9446631	4 9502443	6 9555360	7 9605368	9 9652450	760	9
52	9447585	3 9503349	5 9556217	7 9606177	8 9653210	759	8
53	9448538	2 9504254	4 9557074	6 9606985	7 9653969	8	7
54	9449490	1 9505158	3 9557930	5 9607792	6 9654727	7	6
55	9450441	1 9506061	2 9558785	4 9608598	5 9655484	6	5
56	9451392	950 9506963	2 9559639	3 9609403	5 9656240	6	4
57	9452342	949 9507865	1 9560492	3 9610208	4 9656996	5	3
58	9453291	8 9508766	900 9561345	2 9611012	3 9657751	4	2
59	9454239	7 9509666	899 9562197	1 9611815	2 9658505	3	1
60	9455186	7 9510565	9 9563048	850 9612617	1 9659258	3	0
	19	18	17	16	15		

CANON SVBTENSARVM

75		76		77		78		79			
1	9660011	2	9703660	3	9744355	3	9782080	4	9816827	4	9850674
2	9660763	1	9704363	2	9745009	2	9782684	3	9817381	3	9851381
3	9661514	750	9705065	1	9745660	2	9783287	2	9817934	2	9852034
4	9662264	749	9705766	700	9746312	1	9783890	1	9818486	1	9852686
5	9663013	8	9706466	699	9746963	650	9784490	600	9819037	550	9853286
6	9663761	7	9707165	8	9747613	649	9785092	599	9819587	549	9853886
7	9664503	7	9707863	8	9748262	8	9785689	9	9820137	548	9854486
8	9665253	6	9708561	7	9748910	7	9786288	8	9820686	8	9855086
9	9666001	5	9709258	6	9749557	6	9786886	7	9821234	7	9855686
10	9666746	4	9709954	5	9750203	6	9787483	6	9821781	6	9856286
11	9667490	3	9710649	4	9750849	5	9788079	5	9822227	5	9856886
12	9668233	3	9711343	3	9751494	4	9788674	4	9822872	5	9857486
13	9668976	2	9712036	3	9752136	3	9789268	4	9823417	4	9858086
14	9669718	1	9712729	2	9752781	2	9789862	3	9823961	3	9858686
15	9670459	740	9713421	1	9753423	2	9790455	2	9824504	2	9859286
16	9671209	739	9714112	690	9754065	1	9791047	1	9825046	1	9859886
17	9671938	9	9714802	689	9754706	640	9791638	0	9825587	1	9860486
18	9672677	8	9715491	9	9755346	639	9792228	590	9826128	549	9861086
19	9673415	7	9716180	8	9755985	8	9792818	589	9826668	539	9861686
20	9674152	6	9716868	7	9756623	7	9793407	8	9827207	8	9862286
21	9674888	5	9717555	6	9757260	7	9793995	7	9827745	7	9862886
22	9675623	4	9718241	5	9757897	6	9794582	6	9828282	6	9863486
23	9676357	4	9718926	4	9758533	5	9795168	5	9828818	6	9864086
24	9677091	3	9719610	4	9759168	4	9795753	4	9829354	5	9864686
25	9677824	2	9720294	3	9759802	3	9796337	4	9829889	4	9865286
26	9678556	1	9720977	2	9760435	2	9796921	3	9830423	3	9865886
27	9679287	730	9721659	1	9761067	2	9797504	2	9830956	2	9866486
28	9680017	0	9722340	680	9761699	1	9798086	1	9831488	1	9867086
29	9680747	729	9723020	679	9762330	630	9798667	0	9832015	0	9867686
30	9681476	8	9723699	9	9762960	620	9799247	580	9832540	530	9868286
	14		13		12		11		10		

IN CIRCVLO RECTARVM LINEARVM.

	>5		>6		>>		>3		>9		F
31	9682204	7	9724378	8	9763589	8	9799827	57	9833079	52	23
32	9682931	6	9725056	7	9764217	8	9800406	8	9833608	8	22
33	9683657	6	9725733	6	9764845	7	9800984	7	9834136	7	21
34	9684383	5	9726401	6	9765472	6	9801561	6	9834663	6	20
35	9685108	4	9727085	5	9766099	5	9802137	5	9835189	5	19
36	9685832	3	9727760	4	9766723	4	9802712	4	9835714	4	18
37	9686555	2	9728434	3	9767347	3	9803287	4	9836239	4	17
38	9687277	1	9729107	2	9767970	3	9803861	3	9836763	3	16
39	9687998	1	9729779	1	9768593	2	9804434	2	9837286	2	15
40	9688719	720	9730450	670	9769215	1	9805006	1	9837808	1	14
41	9689439	715	9731120	665	9769836	620	9805577	570	9838329	1	13
42	9690158	8	9731789	2	9770456	610	9806147	560	9838850	520	12
43	9690876	7	9732458	6	9771075	8	9806716	9	9839370	510	11
44	9691593	6	9733126	7	9771693	8	9807285	8	9839889	8	10
45	9692309	6	9733793	6	9772311	7	9807853	7	9840407	7	9
46	9693025	5	9734459	5	9772928	6	9808420	6	9840924	6	8
47	9693740	4	9735124	5	9773545	5	9808986	5	9841440	6	7
48	9694454	3	9735789	4	9774159	4	9809551	5	9841956	5	6
49	9695167	2	9736453	3	9774773	4	9810116	4	9842471	4	5
50	9695879	1	9737116	2	9775387	3	9810680	3	9842985	3	4
51	9696590	1	9737778	1	9776000	2	9811243	2	9843498	2	3
52	9697301	710	9738439	660	9776612	1	9811805	1	9844010	1	2
53	9698011	705	9739099	0	9777223	610	9812366	0	9844521	1	1
54	9698720	8	9739759	610	9777833	600	9812926	560	9845032	510	0
55	9699428	7	9740418	8	9778442	8	9813486	550	9845542	500	9
56	9700135	7	9741076	7	9779050	8	9814045	8	9846051	8	8
57	9700842	6	9741733	6	9779658	7	9814603	7	9846559	7	7
58	9701548	5	9742389	5	9780265	6	9815160	6	9847066	6	6
59	9702253	4	9743045	4	9780871	5	9815716	6	9847572	6	5
60	9702957	3	9743700	3	9781476	4	9816272	5	9848078	5	4

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CANON SVBTENSARVM

80		81		82		83		84			
1	9848583	4	9877338	4	9903085	4	9925816	3	9945523	3	59
2	9849087	3	9877792	3	9903489	3	9926169	2	9945826	2	58
3	9849590	2	9878245	2	9903892	2	9926521	2	9946128	1	57
4	9850092	1	9878697	1	9904294	1	9926873	1	9946429	300	56
5	9850593	0	9879148	0	9904695	400	9927224	350	9946719	299	55
6	9851093	500	9879598	450	9905095	399	9927574	349	9947028	9	54
7	9851593	499	9880048	449	9905494	9	9927923	8	9947327	6	53
8	9852092	8	9880497	8	9905893	8	9928271	7	9947625	8	52
9	9852590	7	9880945	7	9906291	7	9928618	7	9947922	7	51
10	9853087	6	9881392	6	9906688	6	9928965	6	9948218	5	50
11	9853583	6	9881838	5	9907084	5	9929311	5	9948513	4	49
12	9854079	5	9882283	5	9907479	4	9929656	4	9948807	3	48
13	9854574	4	9882728	4	9907873	3	9930000	3	9949100	3	47
14	9855068	3	9883172	3	9908266	3	9930343	2	9949393	2	46
15	9855561	2	9883615	2	9908659	2	9930683	1	9949685	1	45
16	9856053	1	9884057	1	9909051	1	9931028	1	9949976	290	44
17	9856544	1	9884498	0	9909442	390	9931367	340	9950266	289	43
18	9857035	490	9884938	440	9909832	389	9931707	339	9950555	9	42
19	9857525	489	9885378	439	9910221	9	9932046	8	9950844	8	41
20	9858014	8	9885817	8	9910610	8	9932384	7	9951132	7	40
21	9858502	7	9886255	7	9910998	7	9932721	6	9951419	6	39
22	9858989	6	9886692	6	9911385	6	9933057	6	9951705	5	38
23	9859475	6	9887128	6	9911771	5	9933393	5	9951990	4	37
24	9859961	5	9887564	5	9912156	4	9933728	4	9952274	3	36
25	9860446	4	9887999	4	9912540	3	9934062	3	9952557	3	35
26	9860930	3	9888433	3	9912923	3	9934395	2	9952840	2	34
27	9861413	2	9888866	2	9913306	2	9934727	1	9953122	1	33
28	9861895	1	9889298	1	9913688	1	9935058	1	9953403	280	32
29	9862376	0	9889729	410	9914069	580	9935389	330	9953683	279	31
30	9862856	480	9890159	429	9914449	379	9935719	329	9953962	8	30
	9		8		7		6		5		

IN CIRCVLO RECTARVM LINEARVM.

	80		81		82		83		84		
31	9863336	479	9890538	9	9914328	8	9936048	8	9954240	8	29
32	9863815	8	9891017	8	9915206	8	9936376	7	9954518	7	28
33	9864293	7	9891415	7	9915584	7	9936703	6	9954795	6	27
34	9864770	6	9891872	6	9915961	6	9937029	6	9955071	5	26
35	9865246	6	9892293	5	9916337	5	9937355	5	9955346	4	25
36	9865722	5	9892723	4	9916712	4	9937680	4	9955620	3	24
37	9866197	4	9893147	4	9917086	3	9938004	3	9955893	2	23
38	9866671	3	9893571	3	9917459	3	9938327	2	9956165	2	22
39	9867144	2	9893994	2	9917832	2	9938649	1	9956437	1	21
40	9867616	1	9894416	1	9918204	1	9938970	320	9956708	270	20
41	9868087	0	9894837	0	9918575	370	9939290	319	9956978	269	19
42	9868557	470	9895257	420	9918945	369	9939609	2	9957247	8	18
43	9869027	469	9895677	419	9919314	8	9939928	8	9957515	7	17
44	9869496	8	9896096	8	9919682	7	9940246	7	9957782	7	16
45	9869964	7	9896514	7	9920049	7	9940563	6	9958049	6	15
46	9870431	6	9896931	6	9920416	6	9940879	5	9958315	5	14
47	9870897	5	9897347	5	9920782	5	9941194	5	9958580	4	13
48	9871362	5	9897762	5	9921147	4	9941509	4	9958844	3	12
49	9871827	4	9898177	4	9921511	3	9941823	3	9959107	3	11
50	9872291	3	9898591	3	9921874	2	9942136	2	9959370	2	10
51	9872754	2	9899004	2	9922236	2	9942448	1	9959632	1	9
52	9873216	1	9899416	1	9922598	1	9942759	313	9959893	260	8
53	9873677	0	9899827	410	9922959	360	9943069	0	9960153	259	7
54	9874137	460	9900237	409	9923319	359	9943379	309	9960412	8	6
55	9874597	459	9900646	9	9923678	8	9943688	8	9960670	7	5
56	9875056	8	9901055	8	9924036	7	9943996	7	9960927	6	4
57	9875514	7	9901463	7	9924393	7	9944303	6	9961183	5	3
58	9875971	6	9901870	6	9924750	6	9944609	5	9961438	5	2
59	9876427	6	9902276	5	9925106	5	9944914	5	9961693	4	1
60	9876883	5	9902681	4	9925461	5	9945219	4	9961947	3	0
	9		8		7		6		5		

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CANON SVBTENSARVM

85		86		87		88		89	
1	9962200	2	9975843	2	9986447	1	9994009	100	9998527
2	9962452	1	9976045	1	9986598	150	9994109	99	9998576
3	9962703	1	9976246	200	9986748	149	9994208	9	9998625
4	9962954	250	9976449	199	9986897	8	9994307	8	9998673
5	9963204	249	9976645	8	9987045	8	9994405	7	9998720
6	9963453	3	9976843	7	9987193	7	9994502	6	9998766
7	9963701	7	9977040	7	9987340	6	9994598	5	9998811
8	9963948	6	9977237	6	9987486	5	9994693	4	9998855
9	9964194	6	9977433	5	9987631	4	9994787	4	9998899
10	9964440	5	9977628	4	9987775	3	9994881	3	9998942
11	9964685	4	9977822	3	9987918	3	9994974	2	9998984
12	9964929	3	9978015	2	9988061	2	9995066	1	9999025
13	9965172	2	9978207	1	9988203	1	9995157	90	9999065
14	9965414	1	9978398	1	9988344	140	9995247	89	9999104
15	9965655	0	9978589	190	9988484	139	9995336	8	9999143
16	9965895	240	9978779	189	9988623	8	9995424	8	9999181
17	9966135	239	9978968	8	9988761	8	9995512	7	9999218
18	9966374	8	9979156	7	9988899	7	9995599	6	9999254
19	9966612	7	9979343	7	9989036	6	9995685	5	9999289
20	9966849	6	9979530	6	9989172	5	9995770	4	9999323
21	9967085	5	9979716	5	9989307	4	9995854	3	9999356
22	9967320	5	9979901	4	9989441	3	9995937	2	9999389
23	9967555	4	9980083	3	9989574	2	9996019	2	9999421
24	9967789	3	9980268	2	9989706	1	9996101	1	9999452
25	9968022	2	9980450	1	9989837	1	9996182	80	9999482
26	9968254	1	9980631	180	9989968	130	9996262	79	9999511
27	9968485	210	9980811	0	9990098	129	9996341	8	9999539
28	9968715	220	9980991	179	9990227	8	9996419	7	9999566
29	9968944	9	9981170	8	9990355	7	9996496	7	9999593
30	9969173	8	9981348	7	9990482	6	9996573	6	9999619
	4		3		2		1		0

IN CIRCVLO RECTARVM LINEARVM.

85		86		87		88		89			
31	9969401	7	9981525	6	9991608	6	9996649	5	9999644	4	29
32	9969628	6	9981701	6	9991734	5	9996724	4	9999668	3	28
33	9969854	5	9981877	5	9991859	4	9996798	3	9999691	2	27
34	9970079	5	9982052	4	9991983	3	9996871	2	9999713	2	26
35	9970304	4	9982226	3	9992106	2	9996943	1	9999735	1	25
36	9970528	3	9982399	2	9992228	1	9997014	1	9999756	20	24
37	9970751	2	9982571	1	9992349	1	9997085	70	9999776	19	23
38	9970973	1	9982742	0	9992470	120	9997155	69	9999795	8	22
39	9971194	220	9982912	170	9992590	0	9997224	8	9999813	7	21
40	9971414	219	9983082	169	9992710	119	9997292	7	9999830	6	20
41	9971633	8	9983251	8	9992827	8	9997359	69	9999846	6	19
42	9971851	8	9983419	7	9992944	6	9997425	6	9999862	5	18
43	9972096	7	9983586	6	9993060	5	9997491	5	9999877	4	17
44	9972286	6	9983755	5	9993175	5	9997556	4	9999891	3	16
45	9972502	5	9983917	4	9993290	4	9997620	3	9999904	1	15
46	9972717	4	9984081	4	9993404	3	9997683	2	9999916	1	14
47	9972931	4	9984245	3	9993517	2	9997745	19	9999927	1	13
48	9973145	3	9984408	2	9993629	1	9997806	1	9999938	10	12
49	9973358	2	9984570	1	9993740	110	9997867	60	9999948	9	11
50	9973570	1	9984731	160	9993850	0	9997927	59	9999957	8	10
51	9973781	210	9984891	159	9993960	100	9997986	8	9999965	7	9
52	9973991	209	9985050	9	9994069	8	9998044	7	9999972	6	8
53	9974200	8	9985209	8	9994177	7	9998101	6	9999978	6	7
54	9974408	7	9985367	7	9994284	6	9998157	5	9999984	5	6
55	9974615	7	9985524	6	9994390	5	9998212	5	9999989	4	5
56	9974822	6	9985680	5	9994495	4	9998267	4	9999993	3	4
57	9975028	5	9985835	4	9994599	4	9998321	3	9999996	2	3
58	9975233	4	9985989	4	9994703	3	9998374	2	9999998	1	2
59	9975437	3	9986143	2	9994806	2	9998426	1	9999999	1	1
60	9975640	3	9986295	2	9994908	1	9998477	50	10000000	0	0
	4		3		2		1		0		

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