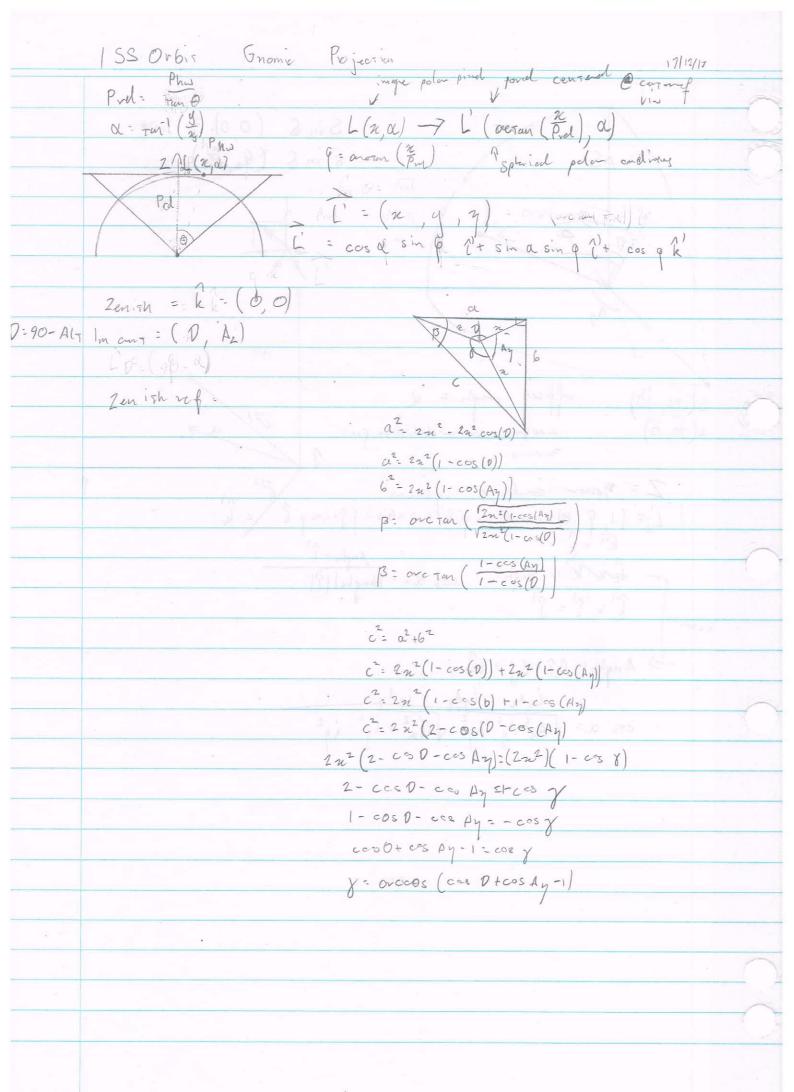
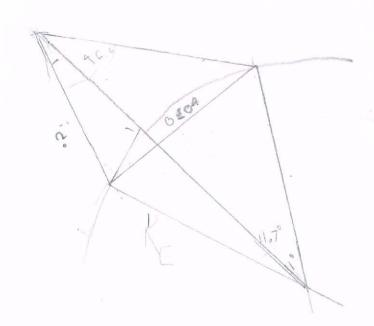
155 orbit where colonius Styphe cusous 17/18/18 1= a2 e2 22 + 62 c2 22 + (a2 +62) 22 + 28 6 c3 21 + 26 B(a2+62) 21 + c382 +6 0 = 2 (a2 c +6 c + 42+62) + 2 (286c2+268(a2+62) + c282+6282-1 0 = 22 (c2(a2+62)+(a2+62) + 2 (2B6(a2+62+62)+c2 B2+62B2-1 n= 2(0+62(cri)) = (2B6(02+62rc2)2 -4((02+62)(cri))(c2B2+62B2-1) 0 = n2 ((a2+62)(c+1)) + 2(2B6 (a2+62+22) + 22B+ 62B2-1  $\frac{a^{2}+6^{2}+c^{2}}{2\left(a^{2}+6^{2}\left(c+1\right)\right)}\left(\frac{2}{2}B^{2}+6^{2}\left(c+1\right)\right)\left(\frac{2}{2}B^{2}+6^{2}B^{2}-1\right)$   $21 = \frac{2}{2}\left(\frac{a^{2}+6^{2}\left(c+1\right)}{a^{2}+6^{2}\left(c+1\right)}\right)$ Tess B= 75 = d 6--.75 CAS:  $n = \frac{1}{(a^2 + 6^2)} \times c = \frac{36}{a^2 + 6^2}$  $y = \frac{a \times B}{a^2 + 6^2 + 6^2 + 6^2 \times 6 \times C}$  $y = + \sqrt{a^2 + 6^2 - 3^2}$ B= cos (ROT) × Ja2+62



RH: 13409m Alits2 Az: +154° 2016/5/20 18:40:35 ALEST DEC: 67:051 Pos Ston Att +48 Ay +1 14 RA: 134 53m Pas End 2016/5/20 18.40:05 AEST A RAS 49m ALPEE: 29° 31' LST: 299° n=0.981 2 2-6 - Za 6 cos C H= 0.46 1:19 0 = 26.76 2.42 /30 0-0204 U=0.0016 8= 1.06 h

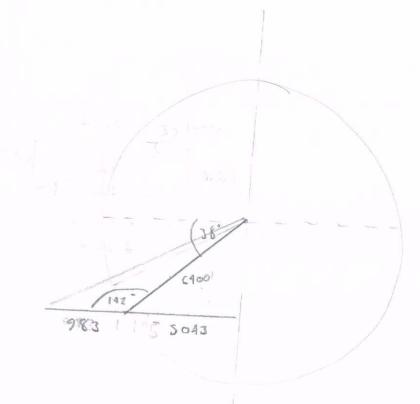


2- a+62 -206 cos B

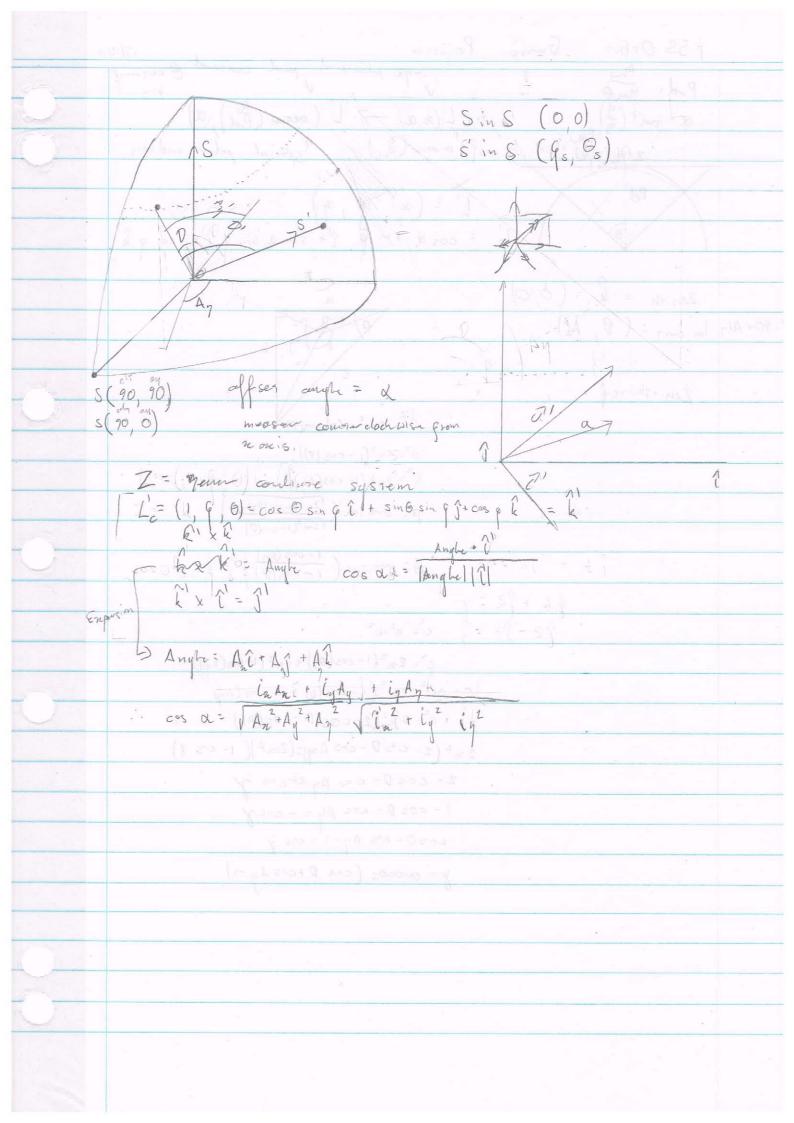
c= 1.117

C= 1.057 RE

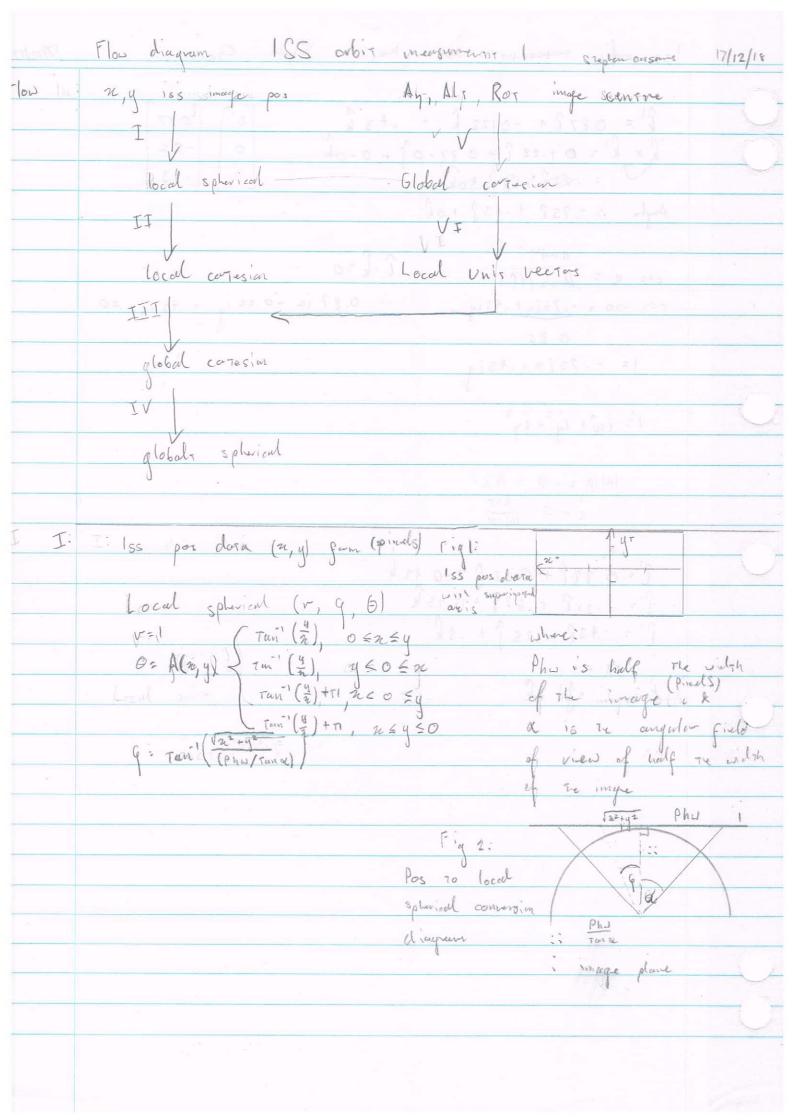
H = 0.059 RE

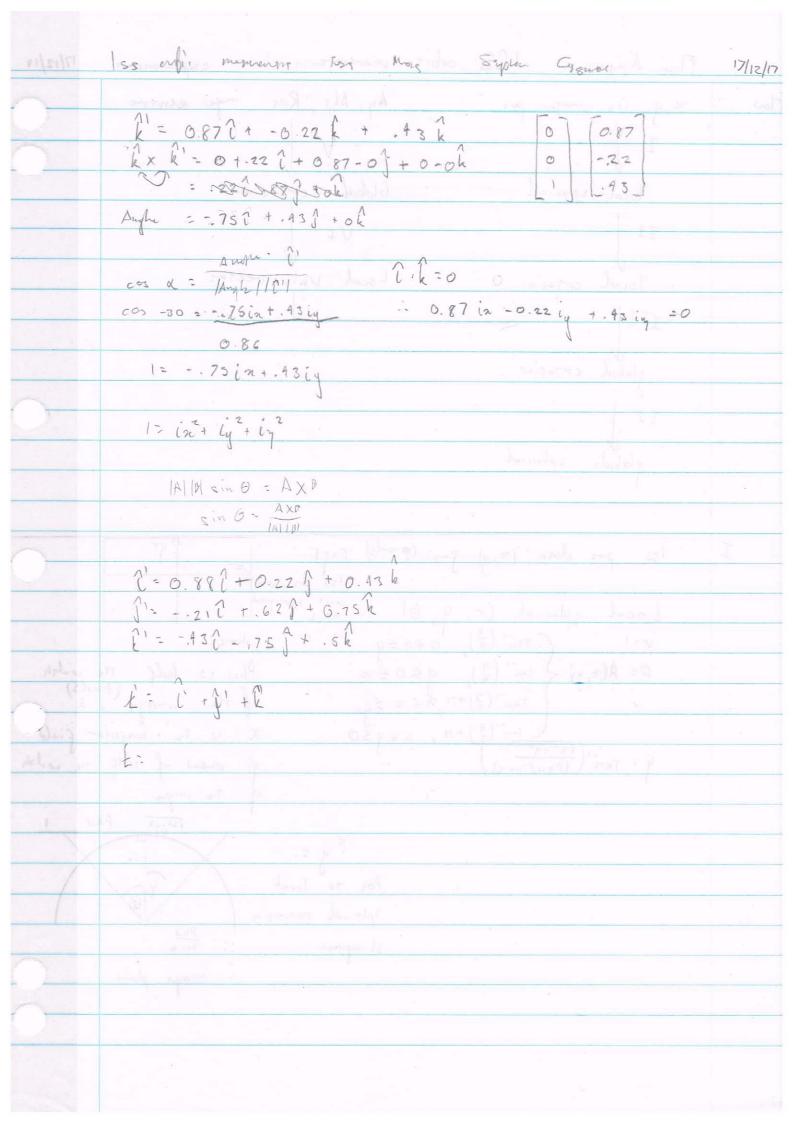


185 abit moseur Syptem Cersones N T = 8 3362.7 833527 N C= 83352. Re RE+4  $\frac{R_E}{\delta} = \frac{R_E + h}{\delta}$ aze + 6 y = c ナーハナニルニモ an, +6 nz=c



The cone of a fix is  Local Correin - mity 1 + hy hi  Substitute in i' = i + j + hi  j' = a l' + 6 j' r ch  l' = a l' + a l' + a l'  l' = a l' + a l' + a l'  l' = a l' + a l' + a l'  l' = a l' + a l' + a l'  l' = a l' + a l'	ALIZINI.	post 12 state to the 22 some by 127 to
Substitut in [1 = [+] + k f- [1] [1 k]  (1 = al + 6] 7 ck  J': dt e pk  kl = n [ i f k  kl = n [ i f k  clothed corresion = 2 (al 16] + c k) + (y(dl + ej + pk) + y(hi + ej + jk))  - 20 at yd + yhi + 20 ty + yi f tict yf + jk  which is also the Morrise purher  a d h fac  b e i y i  c f i y  The continue of	/I cons	$\hat{Q}' = \hat{k}' \times \hat{C}'$
Substitute in [1 = [+ ] + [ ] - [1] [1 ] [1]  \[ \text{C'} = a \text{C'} + 6 \text{C'} \text{T'} \text{C'} \\  \[ \text{J'} = d \text{C'} \text{C'} \\  \text{L'} = n \text{C'} \text{C'} \\  \text{C'} = \text{C'} \\  \text{C'} = \text{C'} \\  \text{C'} \\  \text{C'} = \text{C'} \\  \text{L'} \\  \text{C'} = \text{C'} \\  \text{C'} \text{C'}	エエエ	Local Consin = nî + yji + bykî
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Z-vt.34	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Substitute in it = i+i+k = F- pl plaki
5 lobal corresion: 2 (a) +6 f+c h)+(y(d)+ej+fh)+y(hî+ij+jh)  = 20 a+ yd+yhî + 20 tg tgi ij + 2ic t yf+yjh  which is also the Morris purher  a d h [2] b e i   y : c f i   y   6 lobal corresion (2, 9, 9)  V-1 - 2 y2+y Tui'(2), 0525 g  6 - A(2, 1)  G: ccs'(1)-cs'(2) +11, 2 cos g  Tui'(2) +11, 2 cos g		
5 lobal corresion: 2 (al +6f+ch)+(y(dl+ef+fh)+y(hî+if+jh)  = 20		1 = a 1 + (1 - c)
5 lobal corresion: 2 (al +6f+ch)+(y(dl+ef+fh)+y(hî+if+jh)  = 20		
5 lobal corresion: 2 (a) +6 f+c h)+(y(d)+ej+fh)+y(hî+ij+jh)  = 20 a+ yd+yhî + 20 +ge +gi ij + 2ic+yf+yjh  which is also the Morrier product  a d h   2   b e i   y : c f i   y   6 lobal corresion (2, 9)  Fini (2)  G-A(2, y)  G-A(2, y)  G-Cos (1)-cos (2)  Tan' (3)  Tan' (4)  Ta		
= 20 + yh 1 + 26 + yr + yr + 2 + yr + yr + yr + yr + yr		u = n l 1 J le
= 20 + yh 1 + 26 + yr + yr + 2 + yr + yr + yr + yr + yr		
= 20 + yh 1 + 26 + y + y + 2 + y + y + 2 + y + y + y + y		Gobal coresia: n(a) +6j+ch)+(y(d)+ej+fh)+1y(hi+ij+jh)
which is also the Morrise purhuer  [a] d h [a] b e i   y : c g i   n   [b] The morrise product  IV 6 lobal consistent (n, y, n)  6 lobal spherical (r, 0, 0) $r = 1 - \sqrt{x^2 \cdot y^2 + y^2} = \sqrt{x_{min}} \left( \frac{y_{min}}{x_{min}} \right) = \sqrt{x_{min}} \left( \frac{y_{min}}$	ill of Jan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
which is also the Morrise product  [a d h ] [a]  [b e i   y :  [c g i ] [a]   The Morrise product  IV 6 lobal consistent (n, y, y)  6 lobal spherical (r, 0, 6)		- nat yd + yh i + nb + gz + zi i + nc + gf + jik
IV 6 lobal consime $(n, y, \eta)$ .  6 lobal spherical $(r, \theta, \theta)$ $V = 1 - \sqrt{x^2 + y^2 + \eta^2} $ $G = A(n, \eta)$ $G = cos (\frac{1}{2}) - cos (\frac{1}{2}) + n, n < 0 = y$ $Tun'(\frac{1}{2}) + n, n < 0 = y$		
IV 6 lobal consist $(n, y, y)$ .  Global spherial $(r, \Theta, \Theta)$ $r=1 = \sqrt{x^2 \cdot y^2 + y^2}$ $G: A(n,y)$ $G: cos'(\frac{1}{2}) = cos'(y)$ $fun'(\frac{a}{2}) + n,  n < 0 \le y$ $fun'(\frac{a}{2}) + n,  n < 0 \le y$		which is also The Morrise produces
IV 6 lobal consision $(n, y, y)$ 6 lobal Spherical $(r, \theta, \theta)$ $ \begin{array}{cccccccccccccccccccccccccccccccccc$		As a fine to do to
IV 6 lobal consision $(n, y, y)$ 6 lobal Spherical $(r, \theta, \theta)$ $ \begin{array}{cccccccccccccccccccccccccccccccccc$		à dh [n]
IV 6 lobal corresion $(n, y, y)$ 6 lobal spherial $(r, \theta, \theta)$ $r = 1 - \sqrt{n^2 + y^2 + y^2}$ $\sqrt{\tan^2(\frac{y}{n})}$ $\sqrt{\cos 2n} \le y$ $\theta = A(n, y)$ $\sqrt{\sin^2(\frac{y}{n})} + n$ $\sqrt{\cos 2n} \le y$ $\sqrt{\sin^2(\frac{y}{n})} + \cos^2(\frac{y}{n}) + n$ $\sqrt{\cos 2n} \le y$ $\sqrt{\sin^2(\frac{y}{n})} + n$ $\sqrt{\cos 2n} \le y$		6 e;   q =
IV 6 lobal consists $(n, y, y)$ 6 lobal spherial $(r, \phi, \phi)$ $V = 1 - \sqrt{n^2 + y^2 + y^2} \qquad \text{Tur'}(\frac{y}{n}),  0 \le n \le q$ $6 = A(n, y) \qquad \text{Tur'}(\frac{y}{n}),  y < 0 \le n$ $G : \cos(\frac{y}{n}) = \cos'(y) \qquad \text{Tur'}(\frac{y}{n}) + n,  n < 0 \le q$ $\tan''(\frac{y}{n}) + n,  n \le y \le 0$		
Global Spherial $(r, \theta, \xi)$ $ r = 1 - \sqrt{n^2 + y^2 + y^2} \qquad \begin{cases} \tau m'(\frac{y}{n}) & j \leq n \leq q \\ \hline \theta = A(n, y) & \tau m'(\frac{y}{n}) & j \leq n \leq q \\ \hline \varphi = \cos'(\frac{1}{n}) = \cos'(y) & \tau m'(\frac{y}{n}) + \pi, & n < 0 \leq y \\ \hline \tau m'(\frac{y}{n}) + \pi, & n \leq g \leq 0 \end{cases} $		
Global Spherical $(r, \theta, \xi)$ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}),  0 \le n \le q $ $ \theta = A(n, y) \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $		
Global Spherical $(r, \theta, \xi)$ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}),  0 \le n \le q $ $ \theta = A(n, y) \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $		
Global Spherical $(r, \theta, \xi)$ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}),  0 \le n \le q $ $ \theta = A(n, y) \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $	4 . /	
Global Spherical $(r, \theta, \xi)$ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}),  0 \le n \le q $ $ \theta = A(n, y) \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $ $ r = 1 - \sqrt{n^{2} + y^{2} + y^{2}} \qquad \text{Tun'}(\frac{y}{n}) + \eta,  n < 0 \le y $	1 V	6 lobal consim (n, y, y)
$V = 1 - \sqrt{n^2 + y^2 + y^2} \qquad \int Tun'(\frac{y}{n}) \qquad 1  0 \leq n \leq q$ $G = A(n, y) \qquad \int Tun'(\frac{y}{n}) \qquad y \leq 0 \leq n$ $G = \cos'(\frac{y}{n}) = \cos'(\frac{y}{n}) \qquad \sum un'(\frac{y}{n}) + n \qquad n \leq 0 \leq q$ $\int Tun'(\frac{y}{n}) + n \qquad n \leq y \leq 0$		I be a time to make the make the second to the time to
$V = 1 - \sqrt{n^2 + y^2 + y^2} \qquad \text{Tun'}\left(\frac{y}{n}\right) \qquad 1  0 \leq n \leq q$ $6 = A(n, y) \qquad \text{Tun'}\left(\frac{y}{n}\right) \qquad y < 0 \leq n$ $6 = \cos^2\left(\frac{y}{n}\right) = \cos^2\left(\frac{y}{n}\right) \qquad \text{Tun'}\left(\frac{y}{n}\right) + n \qquad n < 0 \leq q$ $7 \sin^2\left(\frac{y}{n}\right) + n \qquad n \leq q \leq 0$		6 Ideal Spherial (r, 0, 6)
$G = \cos\left(\frac{1}{2}\right) = \cos'\left(\frac{1}{2}\right) = \cos'\left(\frac{1}{2}\right) + \pi,  m < 0 \le y$ $\left(\frac{1}{2}\right) + \pi,  m < 0 \le y$		
$G = \cos\left(\frac{1}{\pi}\right) = \cos'\left(\frac{\gamma}{\gamma}\right) \left[\sin'\left(\frac{\gamma}{\alpha}\right) + \Pi,  m < 0 \le \gamma\right]$ $\left[\tan'\left(\frac{\gamma}{\alpha}\right) + \Pi,  m \le \gamma \le 0\right]$		V-1 V22+42+ Tun' (2) 1 0525 9
$G = \cos\left(\frac{1}{2}\right) = \cos'\left(\frac{1}{2}\right) = \cos'\left(\frac{1}{2}\right) + \pi,  m < 0 \le y$ $\left(\frac{1}{2}\right) + \pi,  m < 0 \le y$		$G = A(n, y)$ $\int Tur'(\frac{y}{n})$ $y \leq 0 \leq n$
$\frac{1}{2} \left( \frac{1}{2} \right) \left( \frac{1}{2} \right) = \frac{1}{2} \left( \frac{1}{2} \right)$		G: cos (7) = cos (7) [ Fun (2) +11, m < 0 = 4
G =		$\left( \frac{1}{2} \right) + 1$ $n \leq u \leq 0$
( = = 1  a= +6= + (cos Us)   a== )		G =
Endlerton and and and		(35 m)(31) 201) - (14 fm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		Englished and the file





Flow diagram 188 action measurers 2 stephen consumy II Local spherial: (1, 9,0) Local coresion: se? + gf' + gf' + gf' - where (', j') & f' are The local unit keeters. n= cos o sin 6 4= sin @ sin @ Image centre (v:1, Ay, fi-Als, Ros) In corresion global: L: ccs Ay sin (n- Ala) (+ sin Ay sin(n-Ay)) + cos(n-Ala) VI kx k' = Any Ang is in the same place as () the angle it and it is the 11: mi+ yg+ yh: (2, 4, 7): { cos (Ro1): Ang x (1) 1= 2 + y2 + y2 0= 61. 11  $|(1) = 1 + \sqrt{\chi^2 + y^2 + \eta^2} = 1$   $|(1) = |(1 + y^2 + y^2 + y^2)| = 1$ The tre y solution is accepted With this known solving refollows for a clockwise coronion, system of eyer as will give i' Tu - VI of solution is accepted Solution: When  $B = \cos(Ro\tau) \times \sqrt{a^2+6^4}$   $\frac{\pm a \cdot \sqrt{a^2+6^2 - (\cos(R) \times \sqrt{a^2+6^2})^2}}{a^2+6^2} = \frac{\cos(R)\sqrt{a^2+6^4} \times 6}{a^2+6^2}$ + 6xc Va+62 - (cos(12) x (12482) 2 + 0x (cos(12) Va2+62 4= - V a2 +62 - (cos (12) Va2+62)

	185 Ophis massing Vierson calulations	
	^,	
	$ \hat{l} = n\hat{l} + y\hat{j} + y\hat{h},  (2i, y, y) : \begin{cases} c = C(R_0) = \frac{A_{ny} \times \hat{l}}{ A_{ny} } \\ 1 = n^2 + y^2 + y^2 \end{cases} $ $ Q = \hat{l} \cdot n\hat{l} $	
	1 = n <sup>2</sup> ty <sup>2</sup> ty <sup>2</sup>	
	0 = 2 · 21	
	Let $cos(Roi): R$ $Any = k \times k$ $/k = a i + b / + c k$	
	R= Ang! Ang! -6(1+a)	
	1= 22 + y2 + y2	
	0 = î' · k'	
<u> </u>		
	7= -6n + ag 1= 22 + y2 + y2 0= an by + cy	
	$\sqrt{a^2+6^2}$	
	$R \times \sqrt{a^2 + 6^2} = -6n + ay$ $C_{3} = -ax - 6y$	
	$R \times \sqrt{a^2 + 6^2} = -6n + ay$ $C_{3} = -an - 6y$ $R \times \sqrt{a^2 + 6^2} + 6n = ay$ $y = \frac{-an - 6y}{6}$	
$\overline{}$	V-1/07-01/	
	7: -an-6 (B+6n)	
	Les Rava=162 = P	
	B+bn = 4	
	1	
$\mathcal{L}_{\mathcal{L}}$	$an+b\left(\frac{b+bn}{a}\right)$ $1=n^2+\left(\frac{b+bn}{a}\right)+\left(\frac{-an-b\left(\frac{b+bn}{a}\right)}{a}\right)$	
	an+ bon 62ma 1=n2+62062+2062+82 +(an-6(816m)2	
	$(2n+60+6^2n)$ $(2n(a^2+6^2)+60)^2$ $(2n(a^2+6^2)+60)^2$ $(2n(a^2+6^2)+60)^2$ $(2n(a^2+6^2)+60)^2$ $(2n(a^2+6^2)+60)^2$ $(2n(a^2+6^2)+60)^2$ $(2n(a^2+6^2)+60)^2$ $(2n(a^2+6^2)+60)^2$	
	$\left(a(a^{2}+b^{2})+bB\right)^{2}$   $= n^{2}+\frac{6n^{2}n^{2}b^{2}a^{2}}{a^{2}}+\frac{(an+b(\frac{b}{a}+6a))}{a^{2}}$	
	· · · · · · · · · · · · · · · · · · ·	
	$\frac{(a^{2}+6^{2})n^{2}}{a^{2}}, \frac{26B(a^{2}+6^{2})n}{a^{2}} + \frac{6^{2}8^{2}}{a^{2}}$ $\frac{1}{a^{2}} = n^{2} + \frac{6^{2}n^{2}+20+n+B}{a^{2}} + \frac{(a^{2}+6^{2})n^{2}+26B(n^{2}+6^{2})n+6^{2}B^{2}}{a^{2}}$	
	$a^{2}$ $a^{2$	
	at = n + az + c at	
	1-12 2 2 120 2	
	$1 = a^{2} + 6^{2}n^{2} + 2Bbn + 0^{2} + (a^{2} + 6^{2})n^{2} + 2bB(a^{2} + 6^{2})n + 6^{2}0^{2}$	
	1= a2 3/2+62/2 +286c2 n + c282+ (a2+63/2 +268 (a3+63/2 +6282	
	The state of the s	

G € ( 5.2, 6.4) ré(1.0552 r E ( 1. 0 54, 1.05 \$)

je(1.053, 1.0 62)

e: 1- a j

e: \[ -\left(\frac{1.0852}{1.0853380688}\right)

l: 0.603899 695.

ini= 51.61 actule 5 1.63 V = 7.3 km c

hu= 400km

9: 5.289

j = 1.0553350656

Nodal prososin 4.95°/day

A = 7.4395× xxx 0.00 42626 m² L= 0.43118°

AT: Tiob # 1.062802 87723 X 1.662799

A = 3.848 85 m2

T: 94 min

94 min