1.) 
$$0 = \frac{1.227}{D}$$
 [vad]  $\frac{1}{D}$  arcsec = rad  $\frac{10}{3600}$  . #  $\frac{1}{180}$   $\frac{1}{2}$   $\frac{1$ 

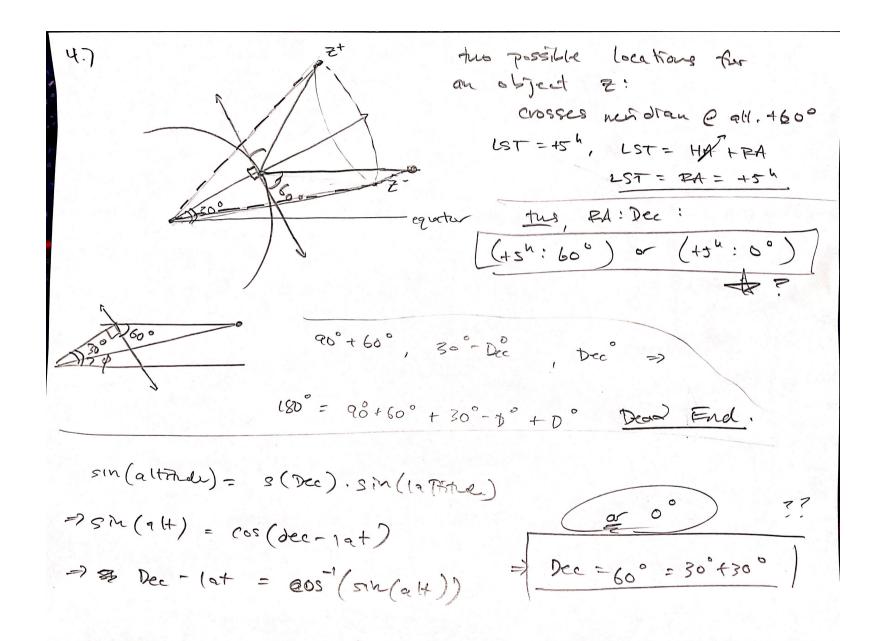
$$\frac{1}{1000} = \frac{1}{1000} = \frac{1$$

$$\Delta T = \sqrt{\frac{2(R_s + R_g)}{R_s^2}} = 8\left(\frac{1}{R_s} + \frac{R_g}{R_s^2}\right) = 8\left(\frac{10^2}{R_s} + \frac{10^4 R_g}{K^2}\right)$$

$$= 8\left(\frac{16^{2}}{R_{2}} + \frac{10^{4}}{R_{3}}\right) \sim \frac{8.10^{4}}{R_{3}} = \frac{8.10^{4}}{16} = 0.5 \times 10^{4} + \frac{5000 \, \text{see.}}{1}$$

 $\frac{3}{2}$  Aries ->  $\frac{7}{2}$  Ar

Hacue, PA (8) = 0 4 6 4 6 5 => LST = 0.



5) Dec ~ (nt. = 37° June 9, 2021. 10 pm.

M13 Hercules Cluster BA 16:41.7 Dec 36°28'

SFA stor chart ? - Facatorial region

→ In raye of June 9,2021; 8pm → nB.2.5 h + 2h → [15.25 h] for lopin overhead ~ \$7° Dec.]

Hercules is pubably best/ closest Let from the curtalogue. (Ren in spiral galaxies! ~200 galaxy cluster).

Anso, Fing nebula 1: Lyra, RA (18:53.6) Dec (33°02')
a planetory nebula, looks gargeous! formed by a storburst.

6.) 
$$L^* = 100 L_0 \Rightarrow M_{bol}^* = 9.8 \quad M_{b.10} = 4.8 \quad$$

7.) Tett 0 
$$\rightarrow$$
 L =  $\sigma R^2 Tett$   $\Rightarrow$  L' =  $\sigma R^2 Tett$   $\Rightarrow$  Tett  $\Rightarrow$  L' =  $\sigma R^2 Tett$   $\Rightarrow$ 

P1 ~ 100 P0 |