

HW7

1a)

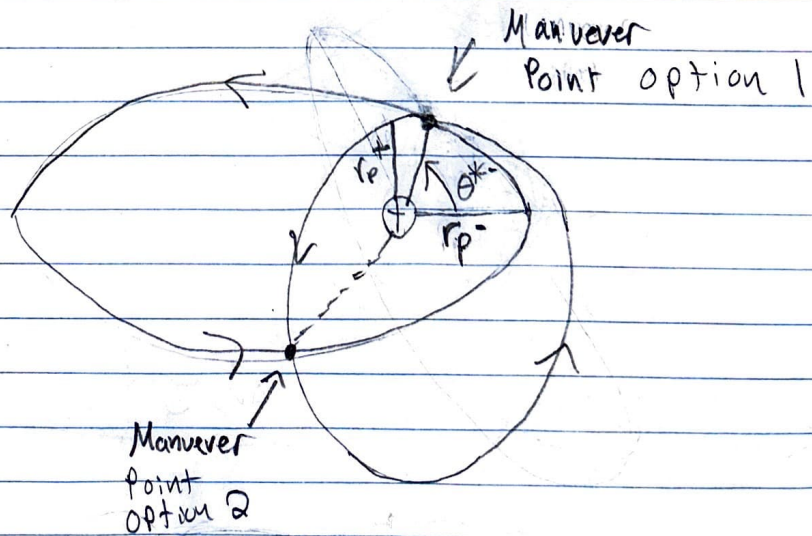
$$r = r_N = \frac{P}{1 + e \cos(\theta^*)} = \frac{P_N}{1 + e_N \cos(\theta_N^*)}$$

$$\Delta \omega = \theta^* - \theta_N^*$$

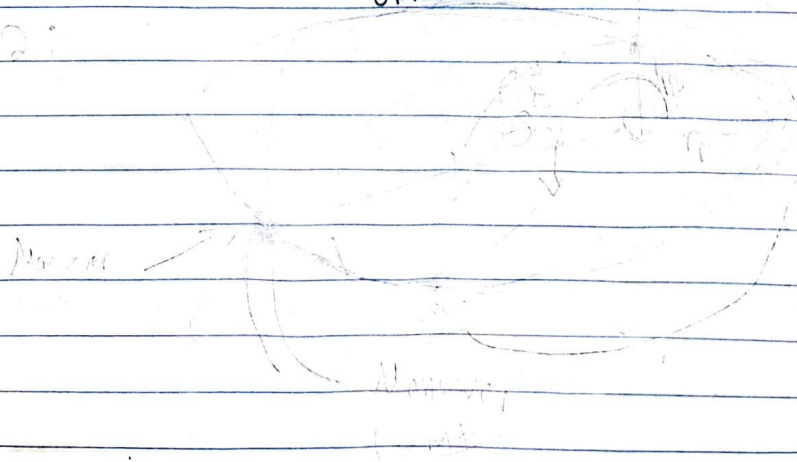
$$\frac{P}{1 + e \cos(\theta^*)} - \frac{P_N}{1 + e_N \cos(\theta_N^*)} = 0$$

$$\theta^* - \theta_N^* - \Delta \omega = 0$$

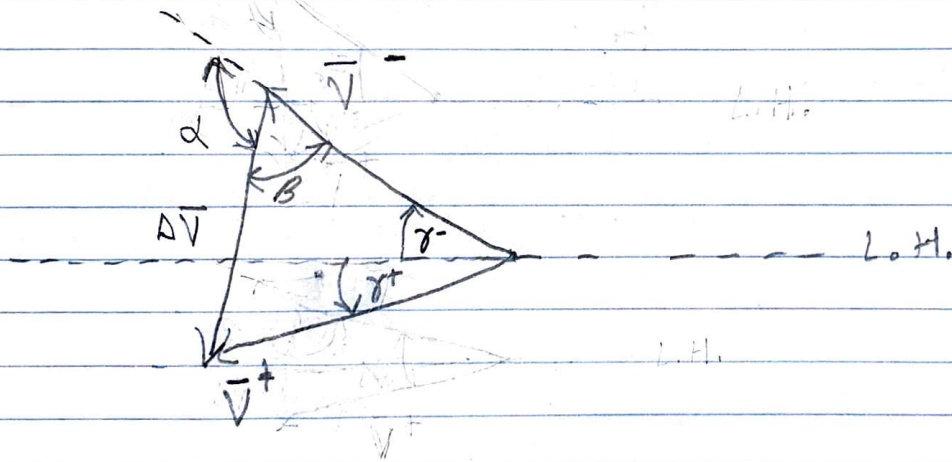
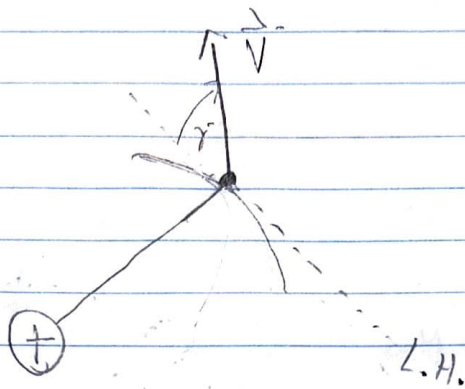
Option 1:



Option 2:



1b)



$$\frac{\sin(B)}{\vec{V}^+} = \frac{\sin(\Delta \gamma)}{\Delta \vec{V}^-}$$

