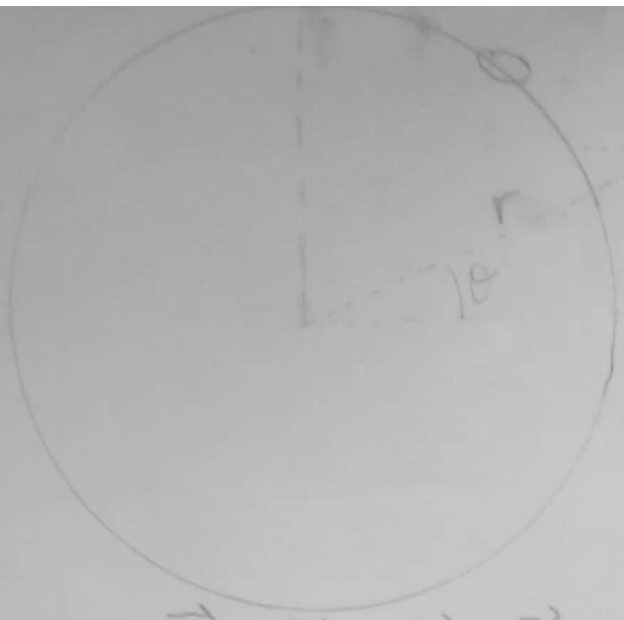

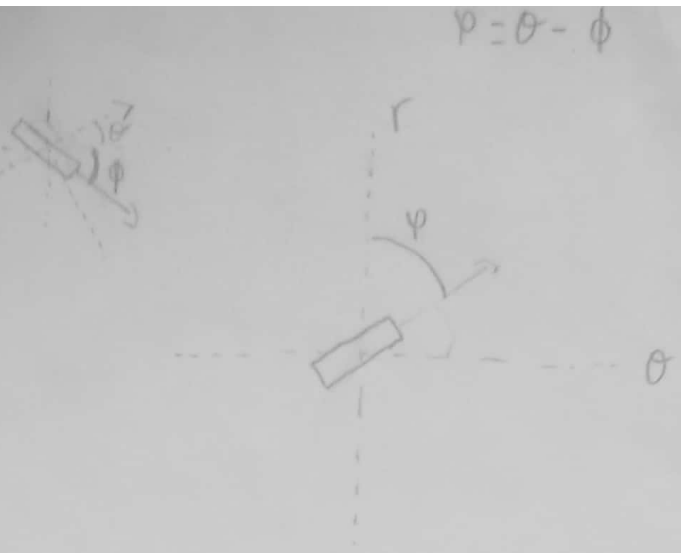

$$m\vec{a} = \vec{F} = \vec{F}_g + \vec{F}_E + \vec{F}_D$$

$$\begin{cases} m a_r = F_r \Rightarrow m(\ddot{r} - r\dot{\theta}^2) = -\dfrac{G m \cdot m_T}{r^2} + P_T A \cos(\theta+\phi) - D \cdot B \cdot \dot{r}^2 \\ m a_\theta = F_\theta \Rightarrow m(2\dot{r}\dot{\theta} + r\ddot{\theta}) = P_T A \sin(\theta+\phi) - D \cdot B \cdot (r\dot{\theta})^2 \end{cases}$$

$$\begin{cases} m\ddot{r} = m r\dot{\theta}^2 - \dfrac{G m m_T}{r^2} + P_T A \cos(\theta+\phi) - D B \dot{r}^2 \\ m r\ddot{\theta} = -2 m \dot{r}\dot{\theta} + P_T A \sin(\theta+\phi) - DB \cdot (r\dot{\theta})^2 \end{cases}$$

$$\begin{cases} \ddot{r} = r\dot{\theta}^2 - \dfrac{G m_T}{r^2} + \dfrac{P_T}{m} A \cos(\theta+\phi) - \dfrac{D}{m} P_0 e^{-\frac{r-r_T}{H_0 = 10.4\,km}} \cdot \dot{r}^2 \\ \ddot{\theta} = -2\dfrac{\dot{r}\dot{\theta}}{r} + \dfrac{P_T}{m r} A \sin(\theta+\phi) - \dfrac{D}{m r} P_0 e^{-\frac{r-r_T}{H_0}} r^2 \dot{\theta}^2 \end{cases}$$

$$m_n = m_{n-1} - E P_T$$

fuerz (rendimiento, Potencia, 600))

If Me

0.5 dt

dt2 = 0.5dt

edge

return