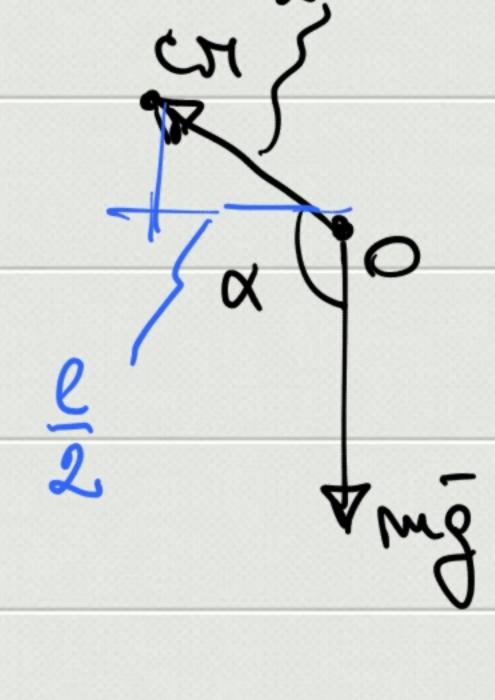
$$\alpha(t_0) = \frac{M_0(t_0)}{T_t}$$

$$\mathcal{H}_{s} = \mathcal{R} \times \mathcal{F} = \mathcal{R} \mathcal{F}_{nin} \alpha \mathcal{U}_{n}$$

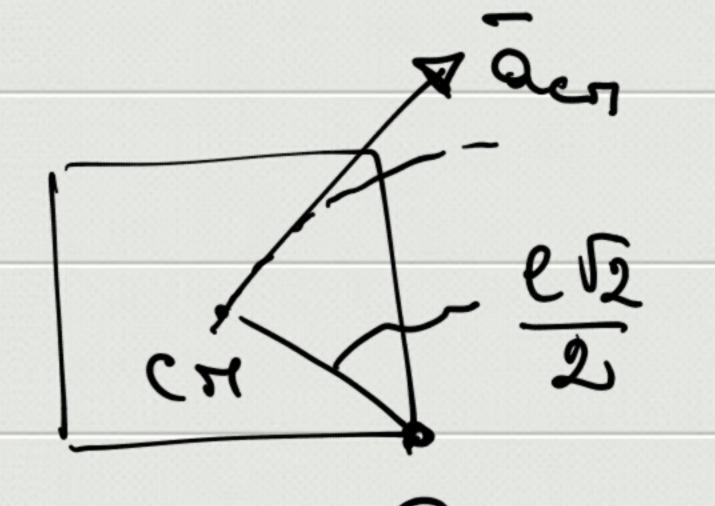
 $R = e \sqrt{2} \frac{\sqrt{2}}{2} = e \sqrt{2}$

$$M_o = (eF) + \frac{2}{2}m_g$$



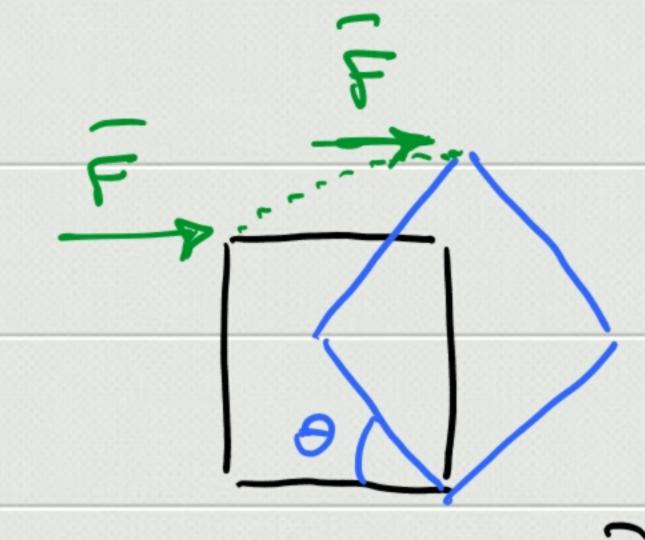
$$\frac{T_2 = T_{21} + ma^2}{\frac{1}{6}me^2 + m\frac{e^2}{2} = \frac{2}{3}me^2}$$

$$d(t_0) = \frac{H_0}{T_2} = \frac{6F - 3mg}{4me} = 0.125 \text{ rod/s}^2$$



$$R_{rx} = m\alpha \frac{e}{2} - F = 1.97 \cdot 10^4 \text{ N}$$

$$R_{y} = m \alpha \frac{2}{2} + mg = 3.95.10^4 N$$



$$W = \int_{0}^{\infty} F dx$$

$$-\Delta \varepsilon_{p} = -\left(mg\frac{2\sqrt{2}}{2} - mg^2\right) = -mg^2\left(\frac{\sqrt{2}}{2} - 1\right)$$

$$\Rightarrow$$
 Fe+mg $\frac{1}{2}(1-\sqrt{2})=\frac{1}{2}I_2\omega^2$

$$\Rightarrow \omega = \sqrt{\frac{3[2F - mg(\sqrt{2} - 1)]}{2me}} = 2.72 \text{ rad/s}$$