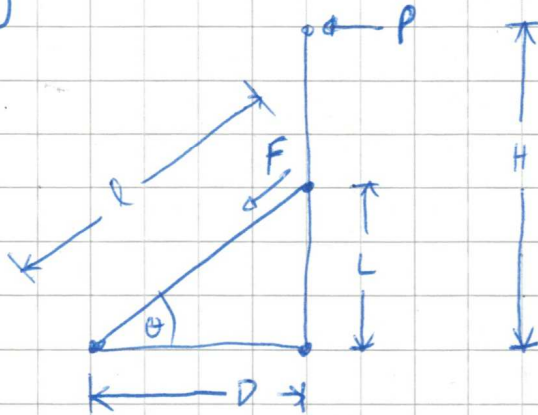
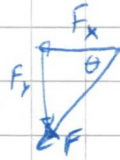


P₃



$$\sum M = 0 \Rightarrow H \cdot P = F_x \cdot L$$

$$F_x = \frac{H \cdot P}{L} \quad (1)$$



$$F = \frac{F_x}{\cos \theta} \quad (2)$$

$$\cos \theta = \frac{D}{l} \quad ; \quad l = \sqrt{D^2 + L^2}$$

$$\cos \theta = \frac{D}{\sqrt{D^2 + L^2}} \quad (3)$$

$$(1) \text{ y } (3) \text{ en } (2)$$

$$F = \frac{H \cdot P \cdot \sqrt{D^2 + L^2}}{L \cdot D}$$

$$P_{Adm} = \frac{P_{crit}}{F \cdot S}$$

$$F \cdot S = 2$$

$$P_{crit} = \frac{\pi^2 \cdot E \cdot I}{(K L)^2}$$

$$F = P_{Adm} \Rightarrow \frac{H \cdot P \cdot \sqrt{D^2 + L^2}}{L \cdot D} = \frac{\pi^2 \cdot E \cdot I}{(K L)^2} \cdot \frac{1}{2}$$

K = 1 PARA



$$\Rightarrow P = \frac{\pi^2 \cdot E \cdot I \cdot L \cdot D}{2 H \cdot L^2 \cdot \sqrt{D^2 + L^2}} = \frac{\pi^2 \cdot E I L D}{2 H (\sqrt{D^2 + L^2})^3}$$

$$P = \frac{\pi^2 \cdot E \cdot I \cdot D L}{2 H (D^2 + L^2)^{3/2}}$$