



- $F =$
- $A_1 =$
- $A_2 =$
- $m =$
- $R_1 = ?$
- $R_2 = ?$
- $p_1 = ?$
- $p_2 = ?$

$$\sum F_{iy} = 0 \rightarrow R_1 + R_2 - F - m \cdot g = 0 \rightarrow R_1 = F + m \cdot g - R_2$$

$$\sum T_{ic} = 0 \rightarrow \frac{l}{2} \cdot R_1 + \frac{l}{4} \cdot F - \frac{l}{2} \cdot R_2 = 0$$

$$-\frac{l}{2} \cdot R_2 + \frac{l}{2} \cdot (F + m \cdot g - R_2) + \frac{l}{4} \cdot F = 0$$

$$-\frac{l}{2} \cdot R_2 + \frac{l}{2} \cdot F + \frac{l}{2} \cdot m \cdot g - \frac{l}{2} \cdot R_2 + \frac{l}{4} \cdot F = 0$$

$$l \cdot R_2 = \frac{3}{4} \cdot l \cdot F + \frac{1}{2} \cdot l \cdot m \cdot g \quad | : l$$

$$R_2 = \frac{3}{4} \cdot F + \frac{1}{2} \cdot m \cdot g$$

$$R_1 = F + m \cdot g - R_2 = F + m \cdot g - \left(\frac{3}{4} \cdot F + \frac{1}{2} \cdot m \cdot g \right)$$

$$R_1 = \frac{1}{4} \cdot F + \frac{1}{2} \cdot m \cdot g$$

$$p_2 \cdot A_2 = R_2 \rightarrow p_2 = \frac{R_2}{A_2}$$

$$p_1 \cdot A_1 = R_1 \rightarrow p_1 = \frac{R_1}{A_1}$$