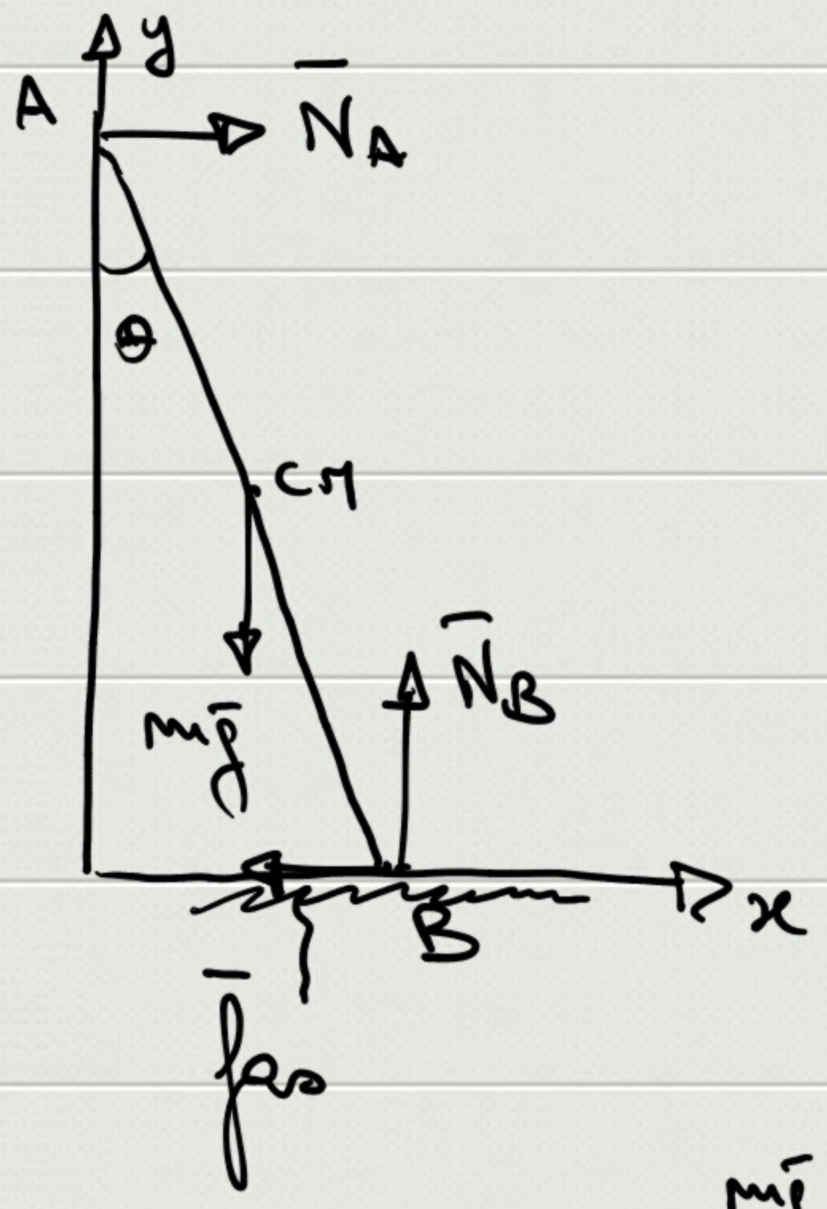
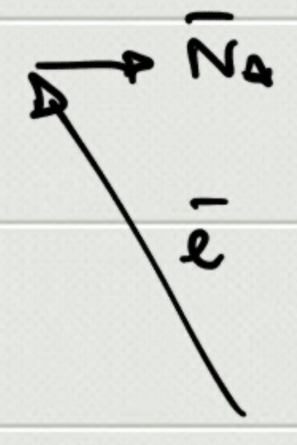
$$\bar{R}^{\varepsilon} = m\bar{a}_{CM} \qquad \bar{M}_O^{\varepsilon} = \bar{I}_z \bar{\alpha}$$

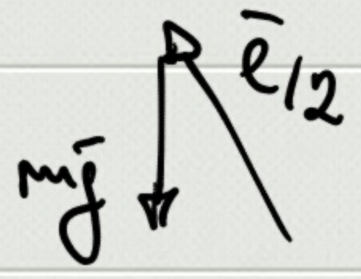
$$v_0 = \omega_0 = 0 \qquad \bar{R}^{\varepsilon} = \bar{M}_O^{\varepsilon} = 0 \Rightarrow \underline{\text{statica}}$$



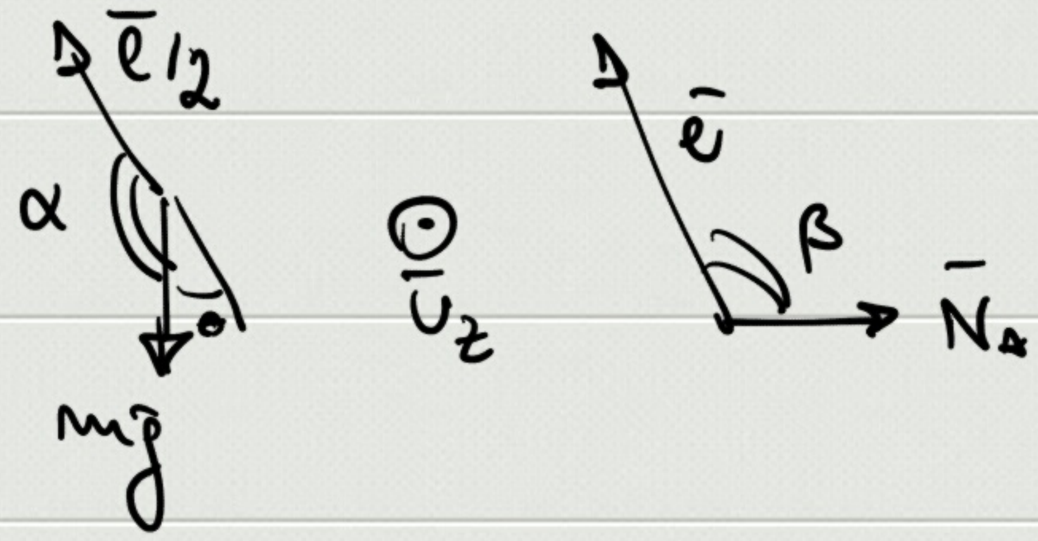
$AB = \ell$

$$\bar{R}^{\varepsilon} = 0 \begin{cases} x: N_A = f_s \\ y: N_B = mg \end{cases}$$





$$\bar{M}_B^{\varepsilon} = 0 \Rightarrow \frac{\bar{\ell}}{2} \times m\bar{g} + \bar{\ell} \times \bar{N}_A = 0$$



$$\Rightarrow \frac{\ell}{2} mg \sin(\pi - \theta)\,\bar{u}_z + \ell N_A \sin\left(\frac{\pi}{2} + \theta\right)(-\bar{u}_z) = 0$$

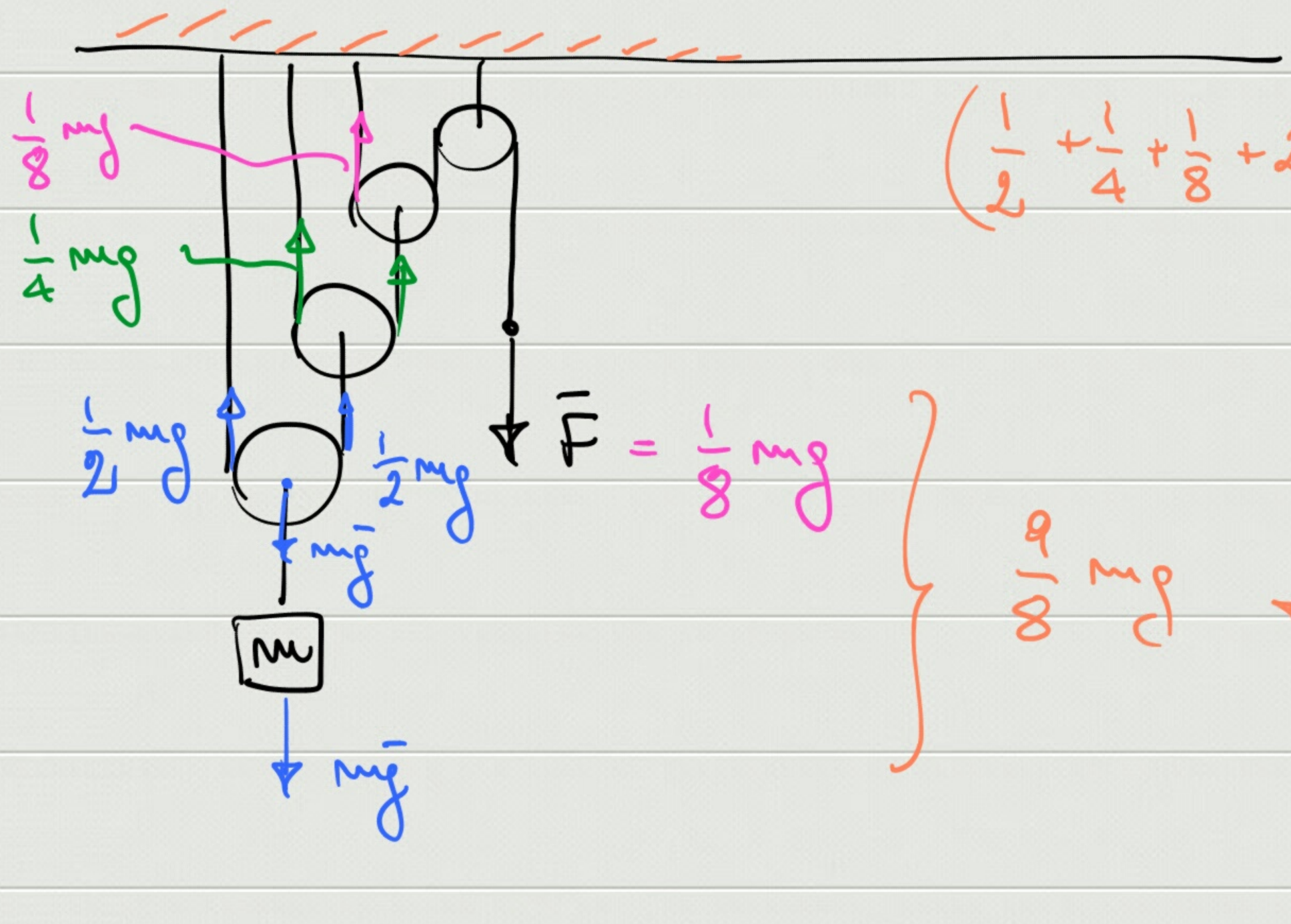
$$\Rightarrow \frac{1}{2} mg \sin\theta - N_A \cos\theta = 0 \Rightarrow N_A = \frac{1}{2} mg \operatorname{tg}\theta$$

$$N_A = \frac{1}{2} mg \operatorname{tg}\vartheta$$

$$= f_{s_0} \leq \mu_s N_B = \mu_s mg$$

$\Bigg\} \Rightarrow$

$$\Rightarrow \frac{1}{2} mg \operatorname{tg}\vartheta \leq \mu_s mg \Rightarrow \boxed{\mu_s \geq \frac{1}{2}\operatorname{tg}\vartheta}$$



$$\left(\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + 2 \cdot \frac{1}{8}\right) mg =$$

$$= \frac{9}{8} mg$$

$\Bigg\}$ $\frac{9}{8} mg \downarrow$