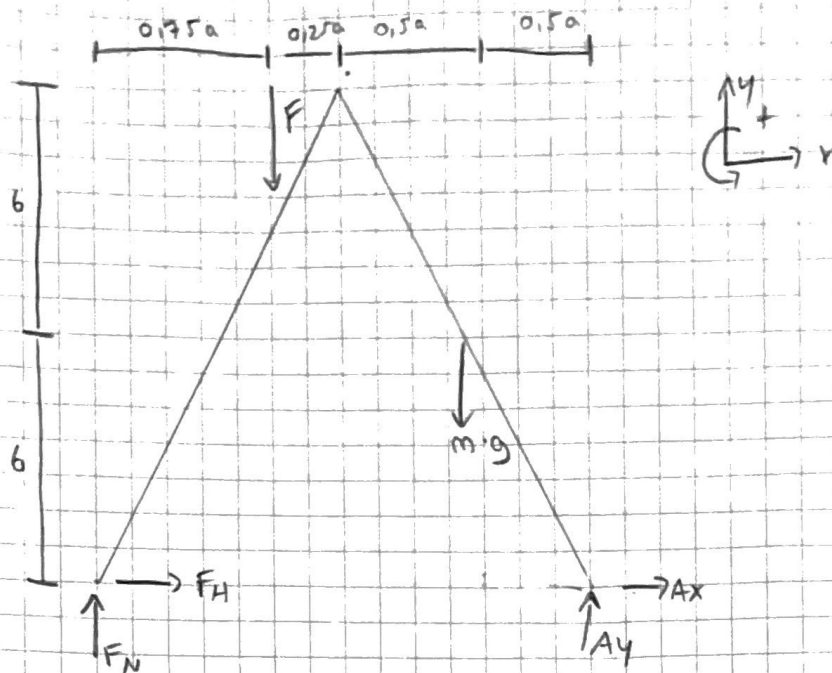


Nr. 6

$$F_H = F_N \cdot M_0 \hat{=} M_0 = \frac{F_H}{F_N}$$



$$\sum M_A = 0 \quad -F_N \cdot 2a + F \cdot 1.25a + m \cdot g \cdot 0.5a = 0$$

$$F_N = \frac{2m \cdot g \cdot 1.25a + m \cdot g \cdot 0.5a}{2a} = \frac{3}{2} m \cdot g$$

$$\sum F_y = 0$$

$$F_N + A_y - F - m \cdot g = 0$$

$$A_y = F_N$$

$$A_y = -F_N + F + m \cdot g$$

$$A_y = -\frac{3}{2} m \cdot g + 2m \cdot g + m \cdot g = \frac{3}{2} m \cdot g$$

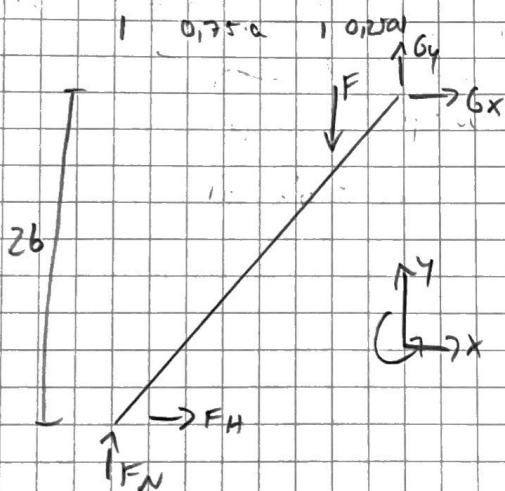
$$\sum F_x = 0$$

$$A_x + F_H = 0$$

$$A_x = -F_H$$

$$F_H = -A_x$$

TSI



$$\sum M_G = 0 \quad F \cdot 0.25a - F_N \cdot a + F_H \cdot 2b = 0$$

$$F_H \cdot 2b = -F \cdot 0.25a + F_N \cdot a \quad | : 2b$$

$$F_H = \frac{-2m \cdot g \cdot 0.25a + \frac{3}{2} m \cdot g \cdot a}{2b}$$

$$= \frac{-0.5m \cdot g \cdot a + \frac{3}{2} m \cdot g \cdot a}{2b}$$

$$= \frac{m \cdot g \cdot a}{2b}$$

$$M_0 = \frac{F_H}{F_N} = \frac{\frac{m \cdot g \cdot a}{2b}}{\frac{3}{2} m \cdot g} = \frac{a}{3b}$$