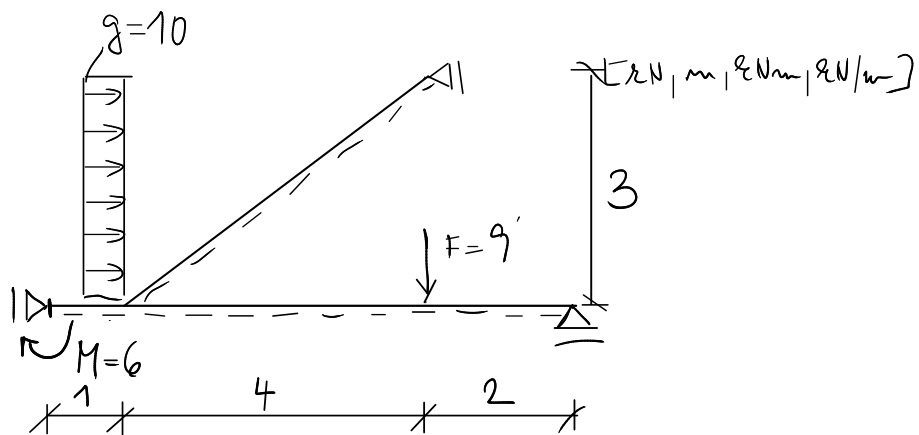
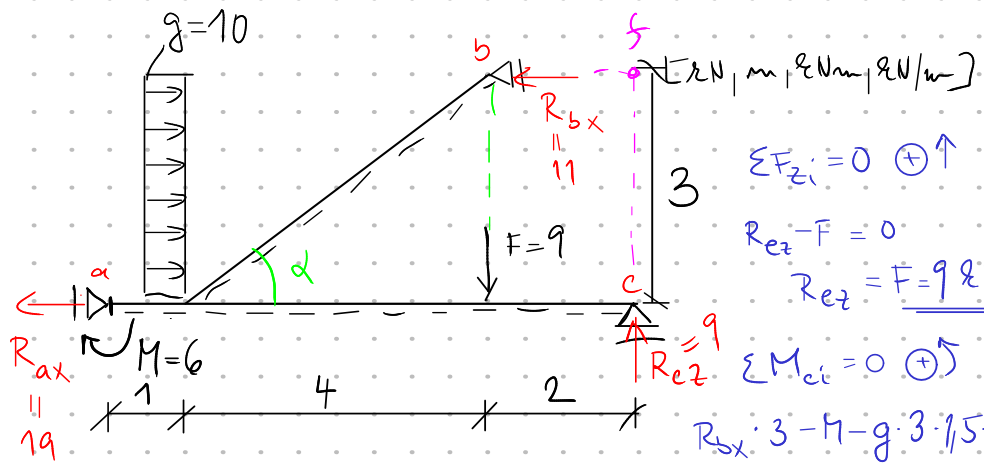




$$\sum F_{zi} = 0 \quad \oplus \uparrow$$

$$R_{bz} - F = 0$$

$$R_{bz} = F = 9 \text{ kN}$$

$$\sum M_{ci} = 0 \quad \oplus \curvearrowright$$

$$R_{bx} \cdot 3 - M - g \cdot 3 \cdot 1,5 + F \cdot 2 = 0$$

$$R_{bx} = 11 \text{ kN}$$

$$\sum M_{fi} = 0 \quad \oplus \curvearrowright$$

$$R_{ax} \cdot 3 + M - g \cdot 3 \cdot 1,5 - F \cdot 2 = 0$$

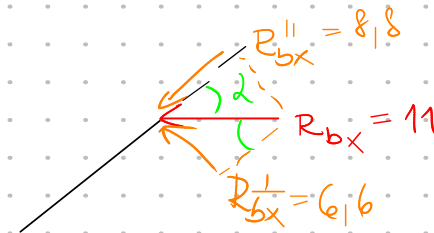
$$R_{ax} = 19 \text{ kN}$$

$$\sum F_{xi} = 0 \quad \oplus \rightarrow$$

$$-R_{ax} + g \cdot 3 - R_{bx} = 0 \quad \checkmark$$

$$\sin \alpha = \frac{3}{5}$$

$$\cos \alpha = \frac{4}{5}$$



$$R_{bx}'' = R_{bx} \cdot \cos \alpha = 8,8 \text{ kN}$$

$$R_{bx}' = R_{bx} \cdot \sin \alpha = 6,6 \text{ kN}$$

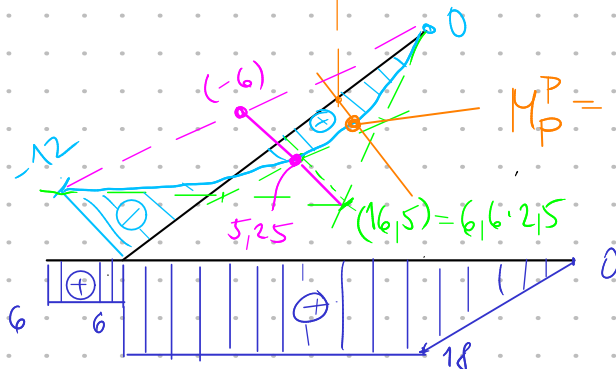
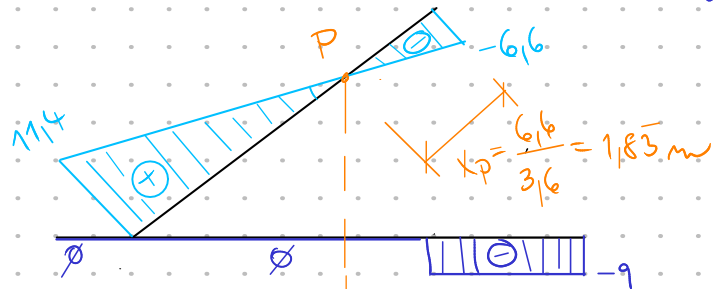
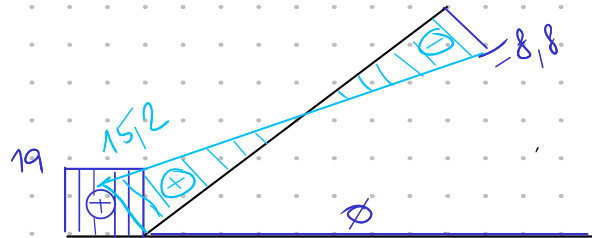
$$g' = \frac{g \cdot 3}{l = 5} = 6 \text{ kN/m}$$

$$q = g' \cdot \sin \alpha = 3,6 \text{ kN/m}$$

$$n = g' \cdot \cos \alpha = 4,8 \text{ kN/m}$$

$$N = n \cdot l = 24 \text{ kN}$$

$$Q = q \cdot l = 18 \text{ kN}$$



$$M_P^P = M_{P_{red}} - \int_{x_P} V dx = 0 - \frac{1}{2} (-6,6) \cdot 1,83 = 6,05 \text{ kNm}$$

$$M_P^P = 6,6 \cdot x_P - q \cdot \frac{x_P^2}{2}$$

$$\frac{1}{8} q l^2 = 11,25 \text{ kNm} = \frac{1}{8} g l^2$$