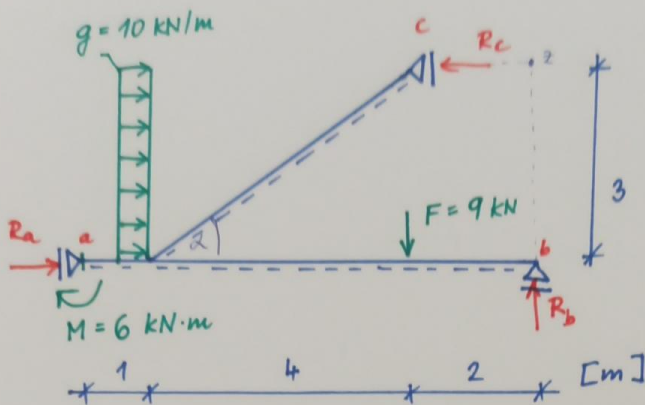




$$\textcircled{4} \downarrow \sum F_{ix} = 0: F - R_b = 0$$

$$R_b = F = 9 \text{ kN} \quad (1)$$

$$\textcircled{4} \curvearrowright \sum M_{ib} = 0: R_a \cdot 3 - g \cdot 3 \cdot 1,5 - M + F \cdot 2 = 0$$

$$R_a = \frac{10 \cdot 3 \cdot 1,5 + 6 - 9 \cdot 2}{3} = \underline{\underline{11 \text{ kN}}} \quad (\leftarrow)$$

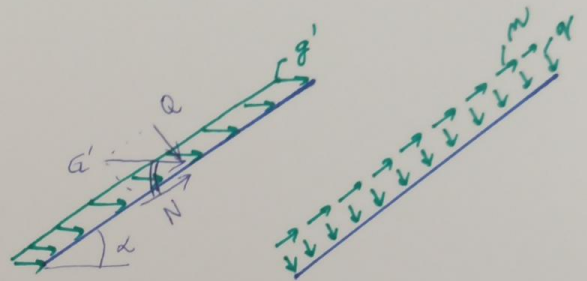
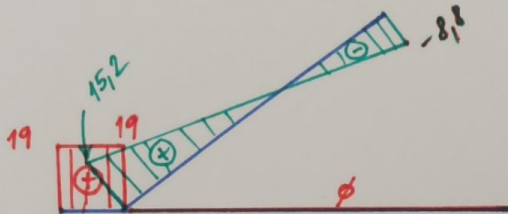
$$\textcircled{4} \curvearrowright \sum M_{iz} = 0: F \cdot 2 + R_a \cdot 3 - M + g \cdot 3 \cdot 1,5 = 0$$

$$R_a = \frac{-9 \cdot 2 + 6 - 10 \cdot 3 \cdot 1,5}{3} = \underline{\underline{-19 \text{ kN}}} \quad (\leftarrow)$$

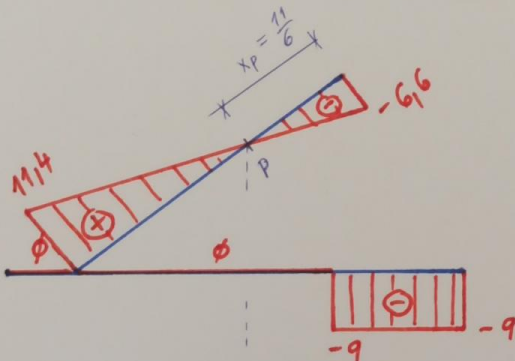
$$\text{KO: } \sum F_{ix} = 0: R_a + g \cdot 3 - R_c = 0$$

$$\textcircled{+} \quad -19 + 10 \cdot 3 - 11 = 0 \quad \checkmark$$

(N)



(V)



$$g \cdot 3 = g' \cdot \sqrt{4^2 + 3^2}$$

$$g' = 6 \text{ kN/m}$$

$$\sin \alpha = \frac{3}{5} = 0,6$$

$$\cos \alpha = \frac{4}{5} = 0,8$$

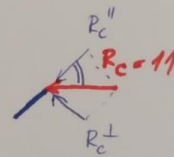
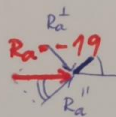
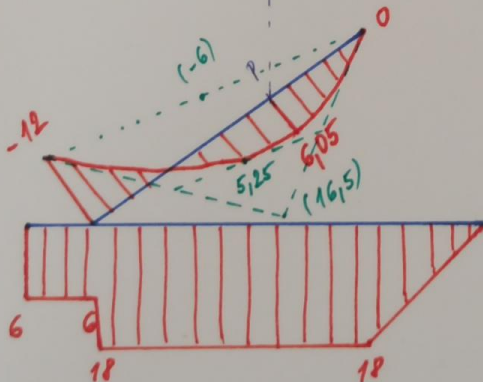
$$g = g' \cdot \sin \alpha = 6 \cdot 0,6$$

$$= 3,6 \text{ kN/m}$$

$$n = g' \cdot \cos \alpha = 6 \cdot 0,8$$

$$= 4,8 \text{ kN/m}$$

(M)



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

$$R_c^\perp = R_c \cdot \sin \alpha = 6,6 \text{ kN}$$

$$R_a'' = R_a \cdot \cos \alpha = -15,2 \text{ kN}$$

$$R_a^\perp = R_a \cdot \sin \alpha = -11,4 \text{ kN}$$

$$V_P^P = 0: -R_c^\perp + g \cdot x_p = 0$$

$$x_p = \frac{R_c^\perp}{g} = \frac{6,6}{3,6} = \underline{\underline{\frac{11}{6} \text{ m}}}$$

$$F = \frac{1}{8} \cdot g \cdot 3^2 = \frac{1}{8} \cdot 4 \cdot 5^2 = 11,25$$

$$M_P^P = R_c^\perp \cdot x_p - g \cdot x_p \cdot \frac{x_p}{2}$$

$$= 6,6 \cdot \frac{11}{6} - 3,6 \cdot \frac{11}{6} \cdot \frac{11}{12} = \underline{\underline{6,05 \text{ kN}\cdot\text{m}}}$$