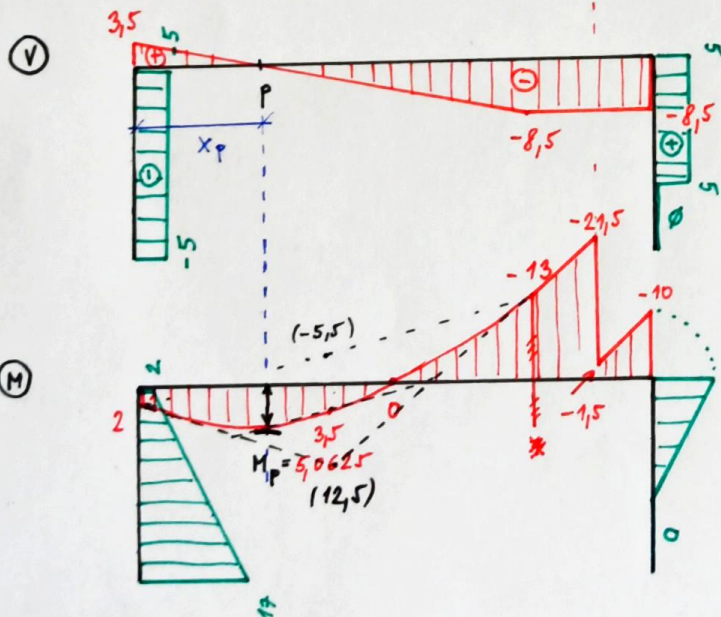
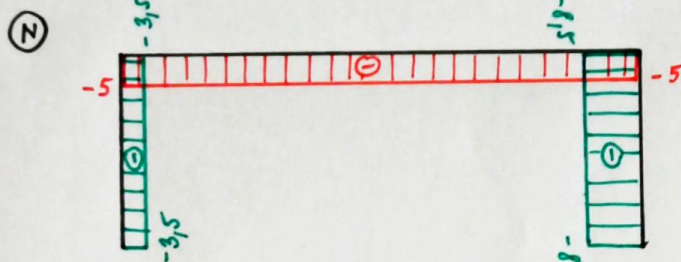
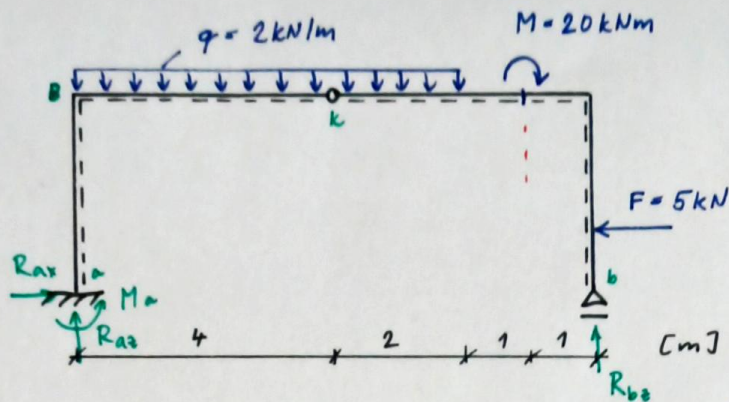




$$\sum F_{ix} = 0$$

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

$$R_{ax} = F = \underline{\underline{5 \text{ kN}}}$$

$$\sum M_{ik} = 0:$$

$$-q \cdot 2 \cdot 1 - M - F \cdot 2 + R_{bx} \cdot 4 = 0$$

$$R_{bx} = \frac{2 \cdot 2 \cdot 1 + 20 + 5 \cdot 2}{4} = \underline{\underline{8.5 \text{ kN}}}$$

$$\sum M_{ia} = 0:$$

$$M_a - q \cdot 6 \cdot 3 - M + F \cdot 1 + R_{bx} \cdot 8 = 0$$

$$M_a = 2 \cdot 6 \cdot 3 + 20 - 5 \cdot 1 - 8.5 \cdot 8 = \underline{\underline{-17 \text{ kNm}}}$$

$$\sum M_{ik}^L = 0:$$

$$M_a + R_{ax} \cdot 3 - R_{az} \cdot 4 + q \cdot 4 \cdot 2 = 0$$

$$R_{az} = \frac{-17 + 5 \cdot 3 + 2 \cdot 4 \cdot 2}{4} = \underline{\underline{3.5 \text{ kN}}}$$

$$K: \sum F_{iz} = 0$$

$$R_{az} + R_{bx} - q \cdot 6 = 0$$

$$3.5 + 8.5 - 2 \cdot 6 = 0 \quad \checkmark$$

$$V_p^L = 0: R_{az} - q \cdot x_p = 0$$

$$x_p = \frac{3.5}{2} = \underline{\underline{1.75 \text{ m}}}$$

$$f = \frac{1}{2} \cdot q \cdot l^2 = \frac{1}{2} \cdot 2 \cdot 6^2 = \underline{\underline{9}}$$

$$\underline{M_p^L} = M_{Bk} + \int_k^L V dx =$$

$$= 2 + \frac{1}{2} \cdot 3.5 \cdot 1.75 = \underline{\underline{5.0625 \text{ kNm}}}$$

nebo (*)

$$\begin{aligned} \textcircled{*} M_p &= -M_a + R_{az} \cdot x_p - R_{ax} \cdot 3 - q \cdot x_p \cdot \frac{x_p}{2} = \\ &= -(-17) + 3.5 \cdot 1.75 - 5 \cdot 3 - 2 \cdot \frac{1.75^2}{2} = \\ &= \underline{\underline{5.0625 \text{ kNm}}} \end{aligned}$$