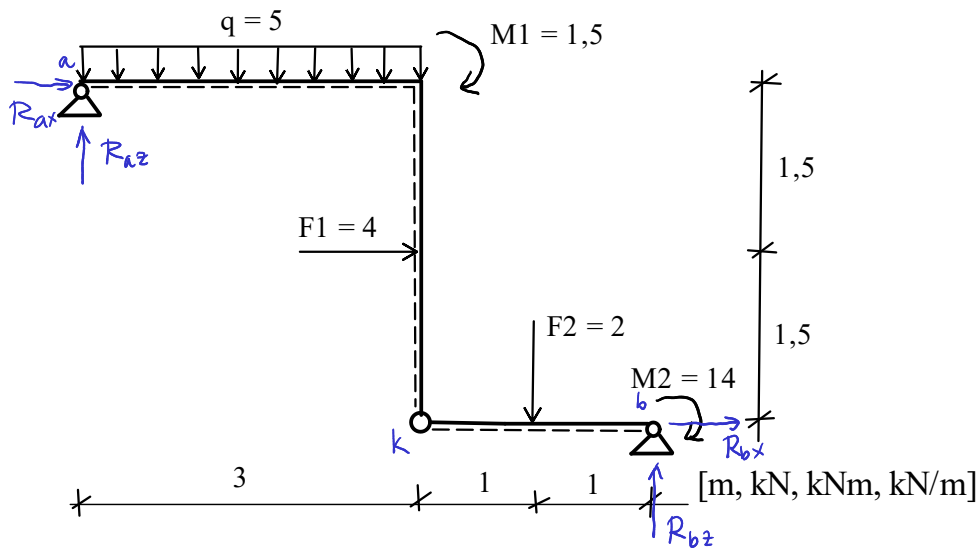
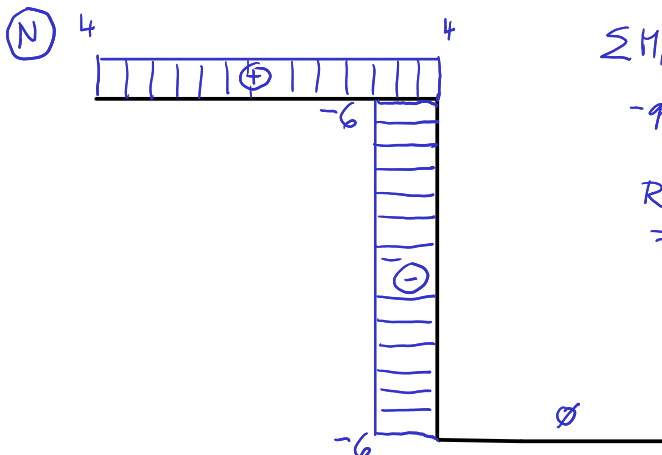




$$\sum M_{ik}^P = 0 \quad \curvearrowright \oplus :$$

$$R_{bz} \cdot 2 - M_2 - F_2 \cdot 1 = 0$$

$$\underline{R_{bz}} = \frac{14 + 2 \cdot 1}{2} = \underline{8 \text{ kN}}$$



$$\sum M_{ia} = 0 \quad \curvearrowright \oplus :$$

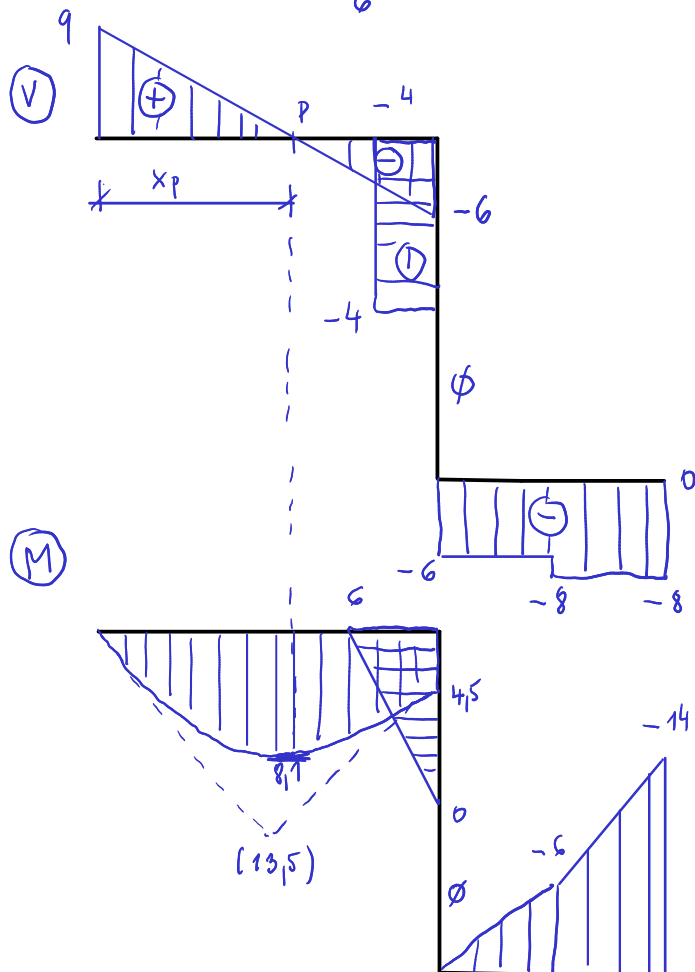
$$-q \cdot 3 \cdot 1.5 - M_1 + F_1 \cdot 1.5 - F_2 \cdot 4 - M_2 + R_{bz} \cdot 5 + R_{bx} \cdot 3 = 0$$

$$\underline{R_{bx}} = \frac{5 \cdot 3 \cdot 1.5 + 1.5 - 4 \cdot 1.5 + 2 \cdot 4 + 14 - 8 \cdot 5}{3} = \underline{0}$$

$$\sum F_{ix} = 0 : \rightarrow \oplus$$

$$R_{ax} + F_1 + R_{bx} = 0$$

$$\underline{R_{ax}} = \underline{-4 \text{ kN}}$$



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

$$-R_{ax} \cdot 3 - R_{az} \cdot 3 + q \cdot 3 \cdot 1.5 - M_1 - F_1 \cdot 1.5 = 0$$

$$\underline{R_{az}} = \frac{+4 \cdot 3 + 5 \cdot 3 \cdot 1.5 - 1.5 - 4 \cdot 1.5}{3} = \underline{9 \text{ kN}}$$

$$K0 : \sum F_{iz} = 0 \quad \downarrow \oplus :$$

$$-R_{az} + q \cdot 3 + F_2 - R_{bz} = 0$$

$$-9 + 5 \cdot 3 + 2 - 8 = 0 \quad \checkmark$$

$$x_p = \frac{9}{5} = \underline{1.8 \text{ m}}$$

$$\underline{M_p} = 0 + \frac{1}{2} \cdot 9 \cdot 1.8 = \underline{8.1 \text{ kNm}}$$