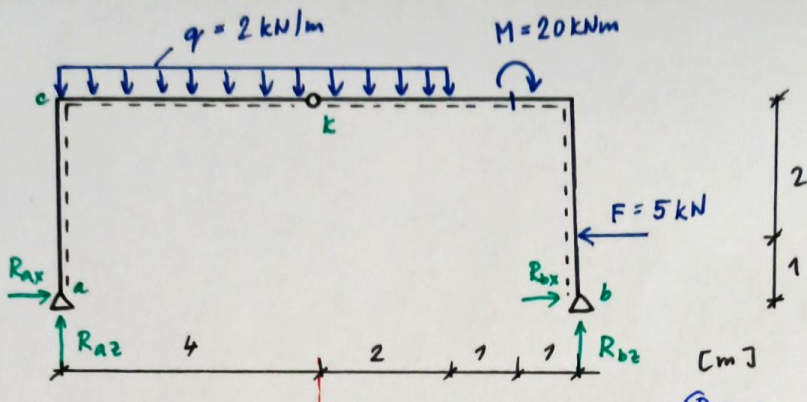




[m]

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

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

$$\underline{R_{bz} = \frac{2 \cdot 6 \cdot 3 + 20 - 5 \cdot 1}{8} = 6,375 \text{ kN}}$$

$$\oplus \sum M_{ib} = 0:$$

$$-R_{az} \cdot 8 + q \cdot 6 \cdot 5 - M + F \cdot 1 = 0$$

$$\underline{R_{az} = \frac{2 \cdot 6 \cdot 5 - 20 + 5 \cdot 1}{8} = 5,625 \text{ kN}}$$

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

$$-q \cdot 2 \cdot 1 - M - F \cdot 2 + R_{bx} \cdot 3 + R_{bz} \cdot 4 = 0$$

$$\underline{R_{bx} = \frac{2 \cdot 2 \cdot 1 + 20 + 5 \cdot 2 - 6,375 \cdot 4}{3} = 2,83 \text{ kN}}$$

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

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

$$\underline{R_{ax} = \frac{5,625 \cdot 4 - 2 \cdot 4 \cdot 2}{3} = 2,16 \text{ kN}}$$

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

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

$$5,625 + 6,375 - 2 \cdot 6 = 0 \quad \checkmark$$

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

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

$$2,16 + 2,83 - 5 = 0 \quad \checkmark$$

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

$$\underline{x_p = \frac{5,625}{2} = 2,8125 \text{ m}}$$

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

$$M_p = M_{ck} + \int_c^r V dx =$$

$$= -6,15 + \frac{1}{2} \cdot 5,625 \cdot 2,8125 =$$

$$\underline{1,41 \text{ kNm}}$$

$$\text{nebo } M_p^L = R_{az} \cdot x_p - R_{ax} \cdot 3 - q \cdot x_p \cdot \frac{x_p}{2} = 5,625 \cdot 2,8125 - 2,16 \cdot 3 - 2 \cdot \frac{2,8125^2}{2} = \underline{1,41 \text{ kNm}}$$

