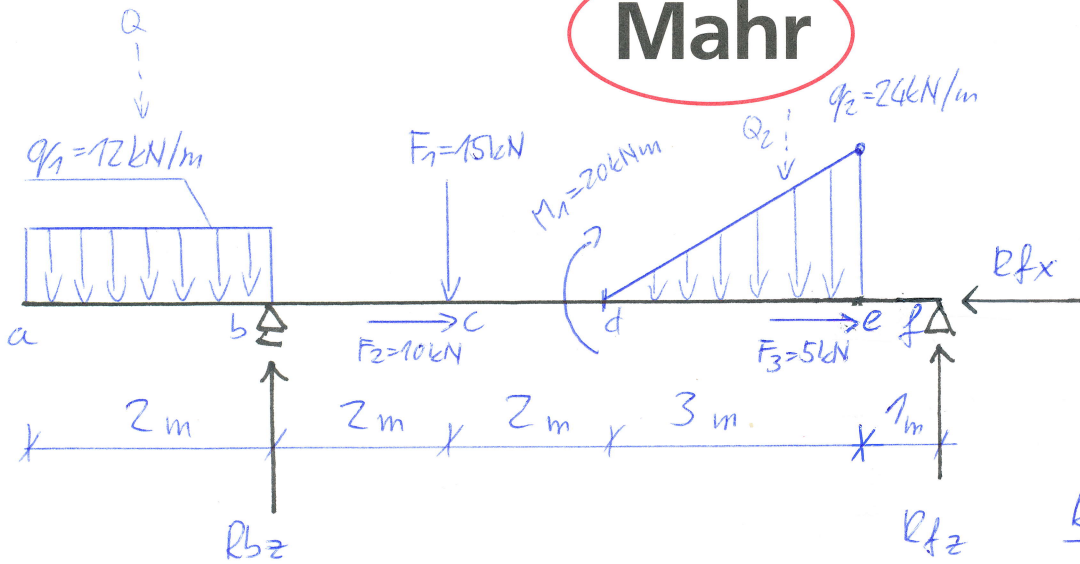


Mahr



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

$$10 + 5 - R_{fx} = 0$$

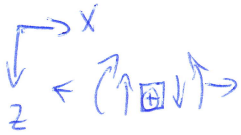
$$R_{fx} = 15 \text{ kN}$$

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

$$(12 \cdot 2) R_{bz} + 15$$

$$+ (24 \cdot 3) / 2 + R_{fz} = 0$$

$$R_{bz} + R_{fz} = 75 \text{ kN} \checkmark$$



$$\sum M_{if}^L = 0$$

$$-(12 \cdot 2) \cdot 4 + R_{bz} \cdot 8 - 15 \cdot 6 + 20 - \frac{24 \cdot 3}{2} \cdot 2 = 0$$

$$R_{bz} = 44,75 \text{ kN}$$

$$\sum M_{ib}^L = \sum M_{ib}^P$$

$$-(12 \cdot 2) \cdot 1 = -15 \cdot 2 - 20 - \frac{24 \cdot 3}{2} \cdot 6 + R_{fz} \cdot 8$$

$$-24 = -266 + R_{fz} \cdot 8$$

$$R_{fz} = 30,25 \text{ kN}$$

$$\sum M_{ia}^P = 0$$

$$0 = -(12 \cdot 2) \cdot 1 + R_{bz} \cdot 2 - 15 \cdot 4 - 20 - \frac{24 \cdot 3}{2} \cdot 8 + R_{fz} \cdot 10$$

$$0 = 0 \checkmark$$

$$x: 5,75 - 9 \frac{x}{2} \times \frac{1}{2} = 0$$

$$5,75 - 24 \cdot \frac{x}{3} \cdot x \cdot \frac{1}{2} = 0$$

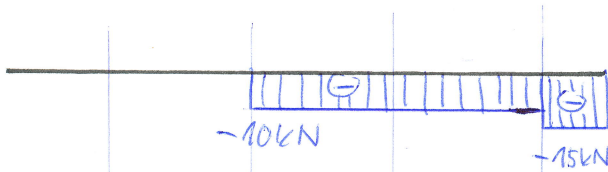
$$4x^2 = 5,75$$

$$x = 1,199 \text{ m}$$

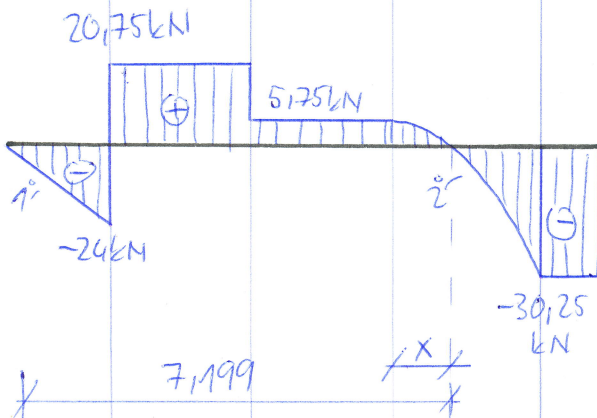
$$M_{max}^L = -12 \cdot 2 \cdot 6,199 + R_{bz} \cdot 5,199 - 15 \cdot 3,199 + 20 + \frac{24 \cdot 1,199}{3} \cdot \frac{1,199}{2} - \frac{1,199}{3}$$

$$= 53,59 \text{ kNm}$$

(N)



(V)



(M)

