

$$F_{1x} = F_1 \cdot \sin(30) = 1 \text{ kN}$$

$$F_{1z} = F_1 \cdot \cos(30) = 1.732 \text{ kN}$$

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

$$R_{ax} - F_{1x} = 0$$

$$\underline{R_{ax} = F_{1x} = 1 \text{ kN}}$$

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

$$-R_{az} + (2 \cdot 3) + 1.732 - R_{bz} = 0$$

$$\underline{R_{az} + R_{bz} = 7.732 \text{ kN}} \quad \checkmark$$

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

$$R_{bz} \cdot 6 - 3 - 1.732 \cdot 4 - (2 \cdot 3) \cdot 1.5 = 0$$

$$\underline{R_{bz} = 3.155 \text{ kN}}$$

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

$$-R_{az} \cdot 6 + (2 \cdot 3) \cdot 4.5 + 1.732 \cdot 2 - 3 = 0$$

$$\underline{R_{az} = 4.577 \text{ kN}}$$

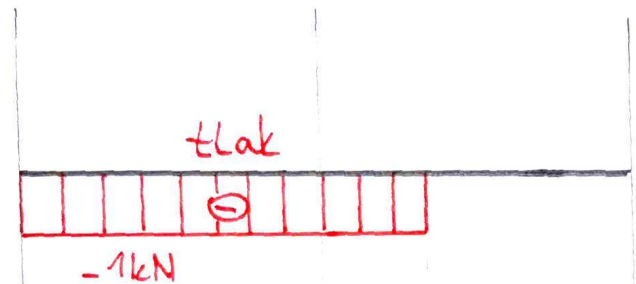
x: $\swarrow \theta$

$$4.577/2 = 2.289 = x$$

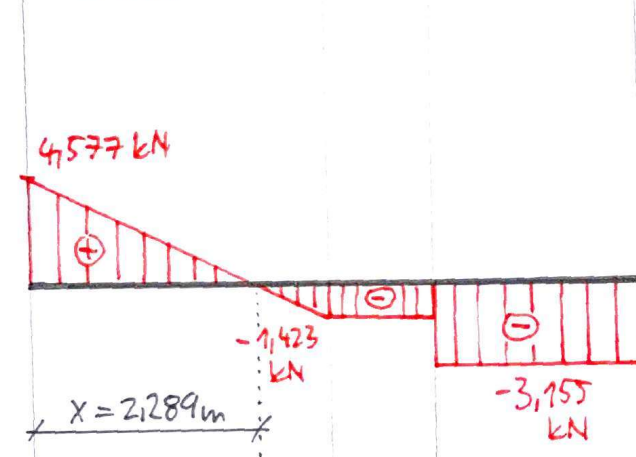
$$M_{max} = M_x = R_{az} \cdot x - (2 \cdot x) \cdot x/2$$

$$= \underline{5.237 \text{ kNm}}$$

(N)
⊕ ⊖



(V)
⊕ ⊖



(M)
⊕ ⊖

