

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

$$F_{1z} = F_1 \cdot \cos(30) = 1,732 \text{ kN}$$

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

$$F_{1x} + R_{bx} = 0$$

$$R_{bx} = -1 \text{ kN}$$

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

$$-R_{az} - R_{bz} + 1,732 + (5 \cdot 3) = 0$$

$$R_{az} + R_{bz} = 16,732 \text{ kN} \checkmark$$

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

$$R_{bz} \cdot 6 - (5 \cdot 3) \cdot 4,5 + 5 - 1,732 \cdot 1 = 0$$

$$R_{bz} = 10,705 \text{ kN}$$

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

$$-R_{az} \cdot 6 + 1,732 \cdot 5 + 5 + (5 \cdot 3) \cdot 1,5 = 0$$

$$R_{az} = 6,027 \text{ kN}$$

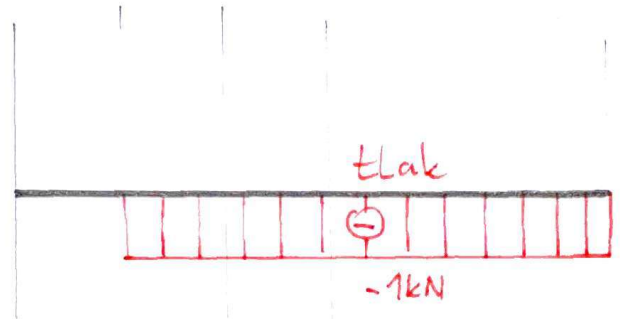
x:

$$10,705 / 5 = 2,141 \text{ m}$$

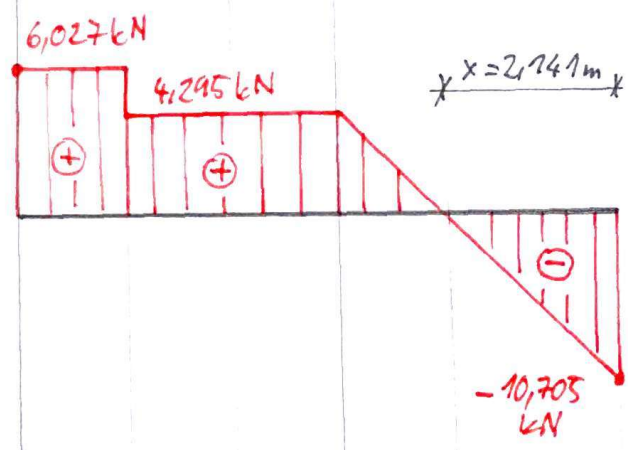
$$M_{max} = M_x^p = R_{bz} \cdot x - (5 \cdot x) \cdot \frac{x}{2}$$

$$= 11,460 \text{ kNm}$$

(N)  
← ⊕ →



(V)  
↑ ⊕ ↓



(M)  
↑ ⊕ ↓

