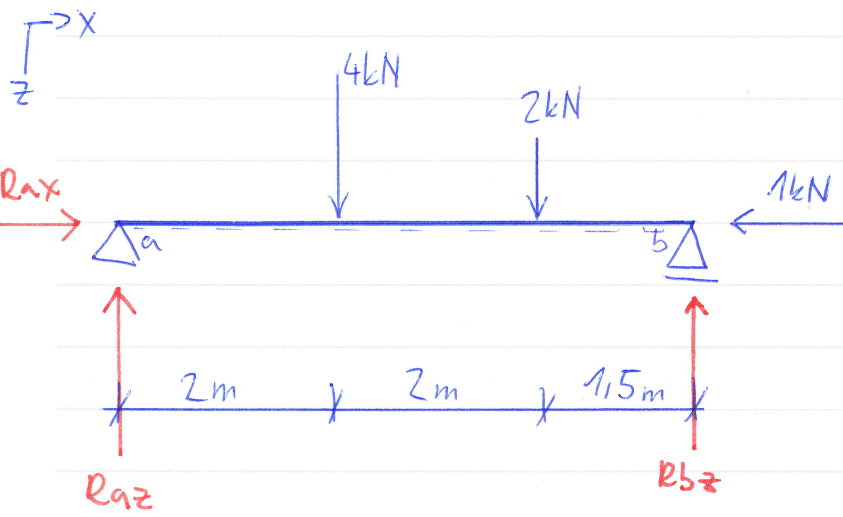


BD001 - Základy stavební mechaniky CV 3

Př 2 | Určete reakce ve vazbách a průběhy vnitřních sil.



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

$$R_{ax} - 1\text{kN} = 0$$

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

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

$$-R_{az} + 4\text{kN} + 2\text{kN} - R_{bz} = 0$$

$$\underline{R_{az} + R_{bz} = 6\text{kN}}$$

Vnitřní síly

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

$$R_{bz} \cdot 5,5 - 2 \cdot 4 - 4 \cdot 2 = 0$$

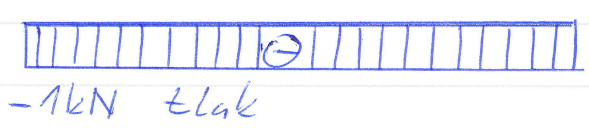
$$\underline{R_{bz} = 2,91\text{kN}}$$

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

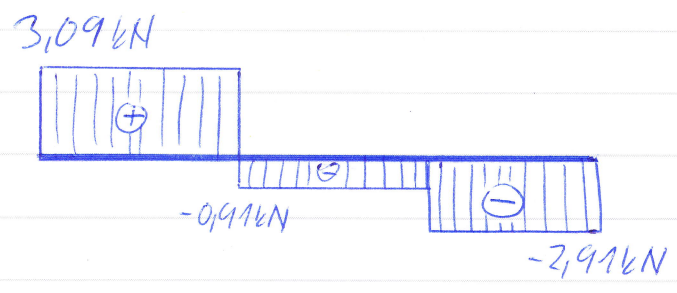
$$R_{az} \cdot 5,5 - 4 \cdot 3,5 - 2 \cdot 1,5 = 0$$

$$\underline{R_{az} = 3,09\text{kN}}$$

(N)



(V)



(M)

