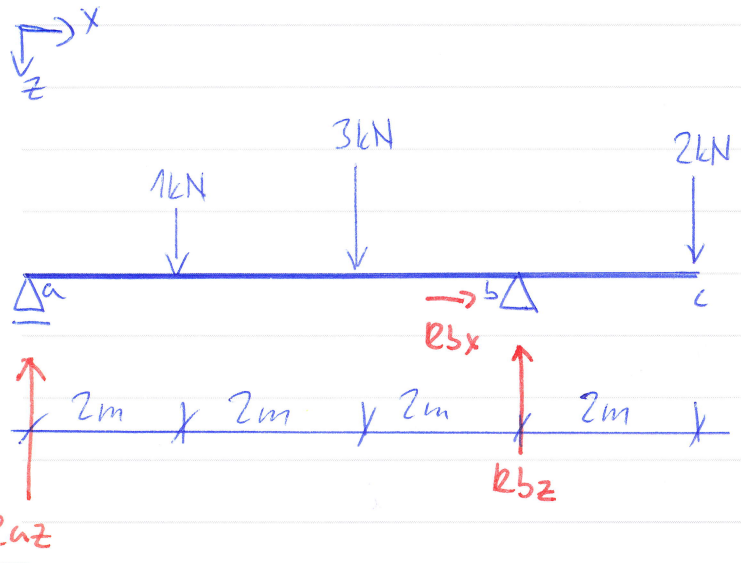


BD001 - Základy stavební mechaniky CV3

Př4) Určete reakce ve vazbách a průběhy vnitřních sil.



$$\sum F_{ix} = 0 ; \underline{R_{bx} = 0 \text{ kN}}$$

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

$$-R_{az} + 1 + 3 - R_{bz} + 2 = 0$$

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

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

$$-2 \cdot 8 + R_{bz} \cdot 6 - 3 \cdot 4 - 1 \cdot 2 = 0$$

$$\underline{R_{bz} = 5 \text{ kN}}$$

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

$$R_{az} \cdot 8 - 1 \cdot 6 - 3 \cdot 4 + R_{bz} \cdot 2 = 0$$

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

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

$$1 \cdot 6 - 1 \cdot 4 - 3 \cdot 2 = -2 \cdot 2$$

$$\underline{-4 = -4} \quad \checkmark$$

Vnitřní síly

