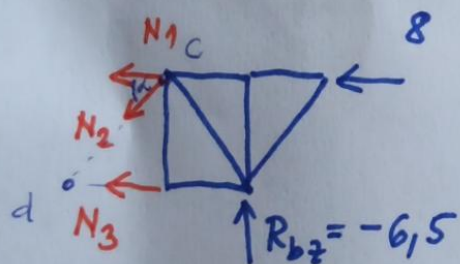
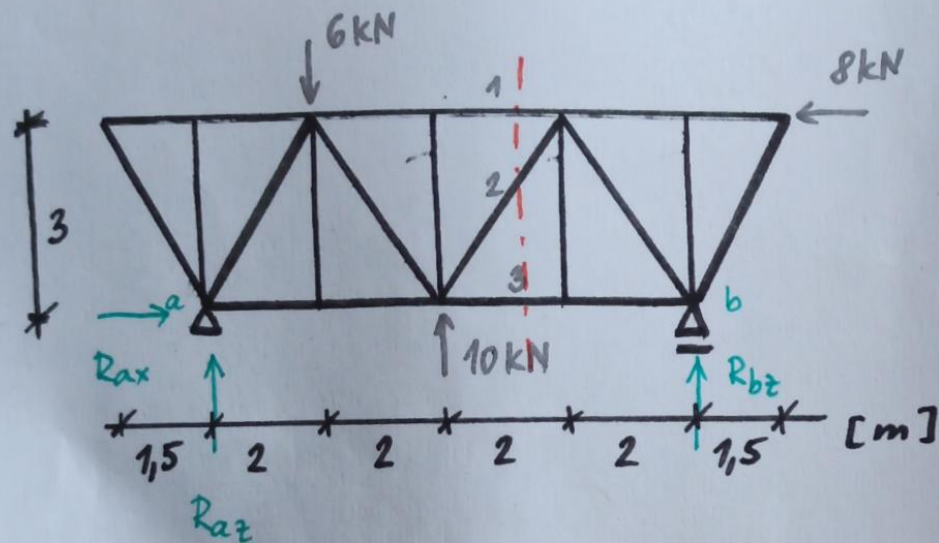


REAKCE + OPOVĚ SÍLY V PRUTECH 1, 2, 3:



$$\sin d = \frac{3}{\sqrt{3^2 + 2^2}}$$

$$\cos d = \frac{2}{\sqrt{3^2 + 2^2}}$$

$$\oplus \downarrow \sum M_{ic} = 0 : R_{bz} \cdot 2 - N_3 \cdot 3 = 0$$

$$\underline{N_3} = \frac{-6,5 \cdot 2}{3} = \underline{-4,3 \text{ kN}} \text{ (TLAK)}$$

$$\oplus \downarrow \sum M_{id} = 0 : N_1 \cdot 3 + 8 \cdot 3 + R_{bz} \cdot 4 = 0$$

$$\underline{N_1} = \frac{-8 \cdot 3 - (-6,5) \cdot 4}{3} = \underline{0,6 \text{ kN}} \text{ (TAH)}$$

$$\oplus \rightarrow \sum F_{ix} = 0 : R_{ax} - 8 = 0$$

$$\underline{R_{ax}} = \underline{8 \text{ kN}} \text{ (}\rightarrow\text{)}$$

$$\oplus \curvearrowright \sum M_{ia} = 0 : -6 \cdot 2 + 10 \cdot 4 + 8 \cdot 3 + R_{bz} \cdot 8 = 0$$

$$R_{bz} = \frac{6 \cdot 2 - 10 \cdot 4 - 8 \cdot 3}{8}$$

$$\underline{R_{bz}} = \underline{-6,5 \text{ kN}} \text{ (}\downarrow\text{)}$$

$$\oplus \curvearrowright \sum M_{ib} = 0 : 8 \cdot 3 + 6 \cdot 6 - 10 \cdot 4 - R_{az} \cdot 8 = 0$$

$$R_{az} = \frac{8 \cdot 3 + 6 \cdot 6 - 10 \cdot 4}{8}$$

$$\underline{R_{az}} = \underline{2,5 \text{ kN}} \text{ (}\uparrow\text{)}$$

$$KO : \sum F_{iz} = 0 : \downarrow \oplus - R_{az} - R_{bz} - 10 + 6 = 0$$

$$-2,5 + 6,5 - 10 + 6 = 0 \checkmark$$

$$\oplus \downarrow \sum F_{iz} = 0 :$$

$$N_2 \cdot \sin d - R_{bz} = 0$$

$$N_2 \cdot \frac{3}{\sqrt{13}} - (-6,5) = 0$$

$$\underline{N_2} = \underline{-7,812 \text{ kN}} \text{ (TLAK)}$$