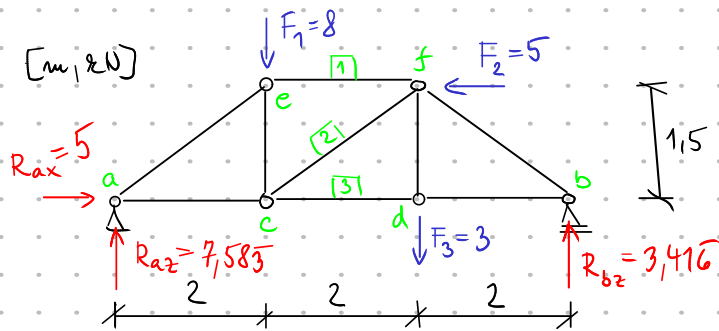




Reakce:

$$\sum F_{xi} = 0 : \oplus \rightarrow$$

$$R_{ax} - F_2 = 0 \Rightarrow \underline{R_{ax} = F_2 = 5 \text{ N} (\rightarrow)}$$

$$\sum M_{ai} = 0 : \oplus \curvearrowright$$

$$-F_1 \cdot 2 + F_2 \cdot 1.5 - F_3 \cdot 4 + R_{bz} \cdot 6 = 0$$

$$R_{bz} = \frac{8 \cdot 2 - 5 \cdot 1.5 + 3 \cdot 4}{6} = \underline{3.41\bar{6} \text{ N} (\uparrow)}$$

$$\sum M_{bi} = 0 : \oplus \curvearrowright$$

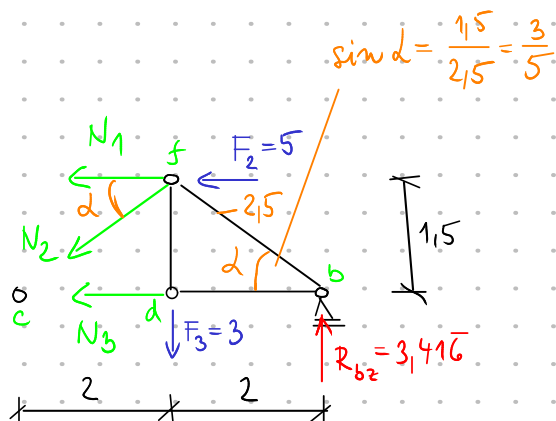
$$R_{az} \cdot 6 - F_1 \cdot 4 - F_2 \cdot 1.5 - F_3 \cdot 2 = 0$$

$$R_{az} = \frac{8 \cdot 4 + 5 \cdot 1.5 + 3 \cdot 2}{6} = \underline{7.58\bar{3} \text{ N} (\uparrow)}$$

Kontrola: $\sum F_{zi} = 0 \oplus \uparrow$

$$R_{az} + R_{bz} - F_1 - F_3 = 0$$

$$7.58\bar{3} + 3.41\bar{6} - 8 - 3 = 0 \checkmark$$



průsečík $N_2 \cap N_3$

$$\sum M_{ci} = 0 \oplus \curvearrowright$$

$$N_1 \cdot 1.5 - F_3 \cdot 2 + R_{bz} \cdot 4 + F_2 \cdot 1.5 = 0$$

$$\underline{N_1 = -10.1 \text{ N (TLAK)}}$$

průsečík $N_1 \cap N_2$

$$\sum M_{fi} = 0 \oplus \curvearrowright$$

$$N_3 \cdot 1.5 - R_{bz} \cdot 2 = 0$$

$$\underline{N_3 = 4.5 \text{ N (TAH)}}$$

průsečík $N_1 \cap N_3$ v nekonečnu

směr kolmý na $N_1 \cap N_3$

$$\sum F_{zi} = 0 \oplus \downarrow$$

$$N_{2z} + F_3 - R_{bz} = 0$$

$$N_2 \sin \alpha = R_{bz} - F_3$$

$$N_2 = \frac{3.41\bar{6} - 3}{3/5} = \underline{0.69\bar{4} \text{ N (TAH)}}$$