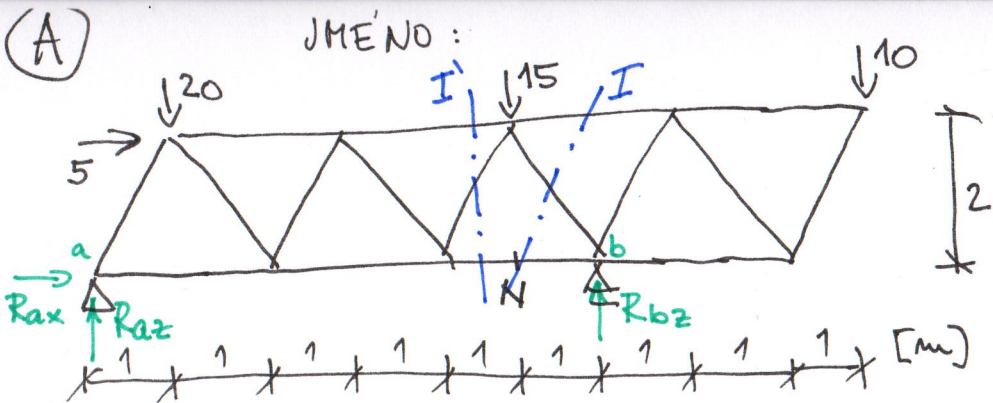




$$\sum F_{xi} = 0 \oplus \rightarrow$$

$$R_{ax} + 5 = 0 \Rightarrow \underline{R_{ax} = -5 \text{ kN}}$$

$$\sum M_{ai} = 0 \oplus \uparrow$$

$$-20 \cdot 1 - 5 \cdot 2 - 15 \cdot 5 + R_{bz} \cdot 6 - 10 \cdot 9 = 0$$

$$\underline{R_{bz} = \frac{195}{6} = 32,5 \text{ kN}}$$

$$\sum M_{bi} = 0 \oplus \uparrow$$

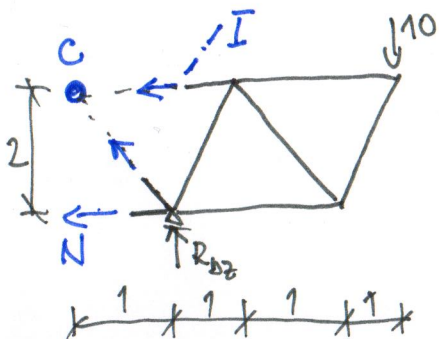
$$-R_{az} \cdot 6 - 5 \cdot 2 + 20 \cdot 5 + 15 \cdot 1 - 10 \cdot 3 = 0$$

$$\underline{R_{az} = \frac{75}{6} = 12,5 \text{ kN}}$$

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

$$R_{az} + R_{bz} - 20 - 15 - 10 = 0$$

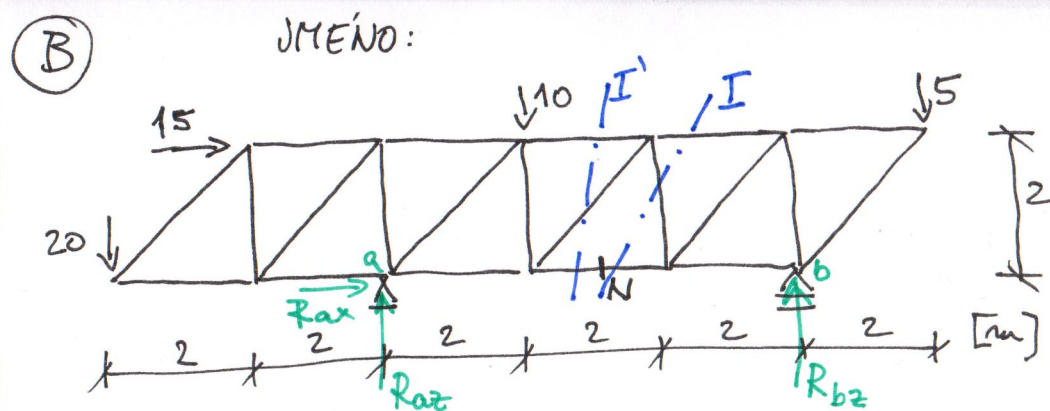
$$\underline{0 = 0 \checkmark}$$



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

$$R_{bz} \cdot 1 - 10 \cdot 4 - N \cdot 2 = 0$$

$$\underline{N = \frac{-45}{2} = -22,5 \text{ kN}}$$



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

$$15 + R_{ax} = 0 \Rightarrow \underline{R_{ax} = -15 \text{ kN}}$$

$$\sum M_{ai} = 0 \oplus \uparrow$$

$$-20 \cdot 2 + 15 \cdot 2 + 10 \cdot 2 + R_{bz} \cdot 6 + 5 \cdot 8 = 0$$

$$\underline{R_{bz} = \frac{10}{6} = 1,6 \text{ kN}}$$

$$\sum M_{bi} = 0 \oplus \uparrow$$

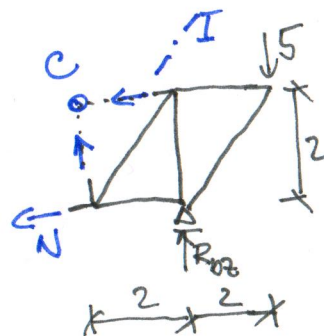
$$20 \cdot 10 - 15 \cdot 2 - R_{az} \cdot 6 + 10 \cdot 4 - 5 \cdot 2 = 0$$

$$\underline{R_{az} = \frac{200}{6} = 33,3 \text{ kN}}$$

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

$$R_{az} + R_{bz} - 20 - 10 - 5 = 0$$

$$\underline{0 = 0 \checkmark}$$



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

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

$$\underline{N = \frac{-16,6}{2} = -8,3 \text{ kN}}$$