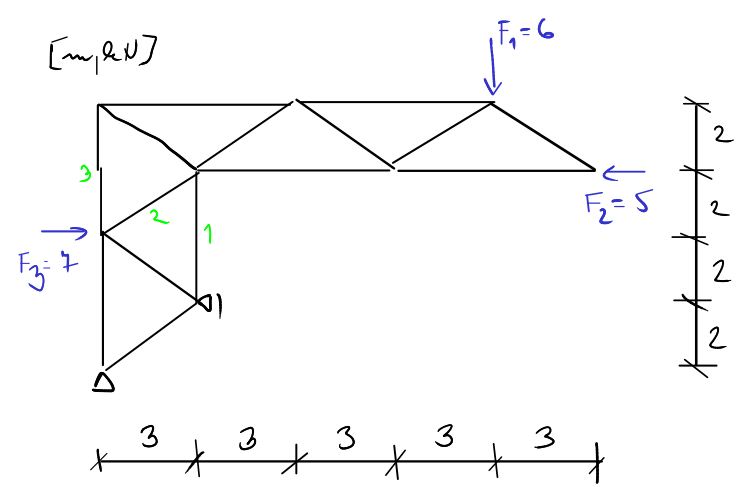
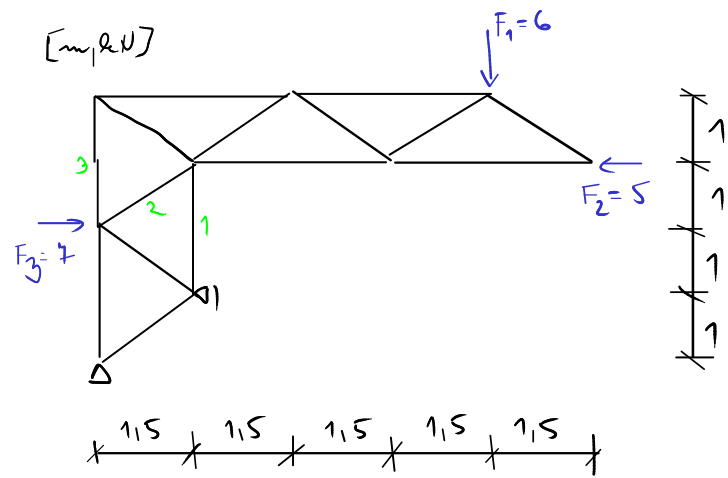
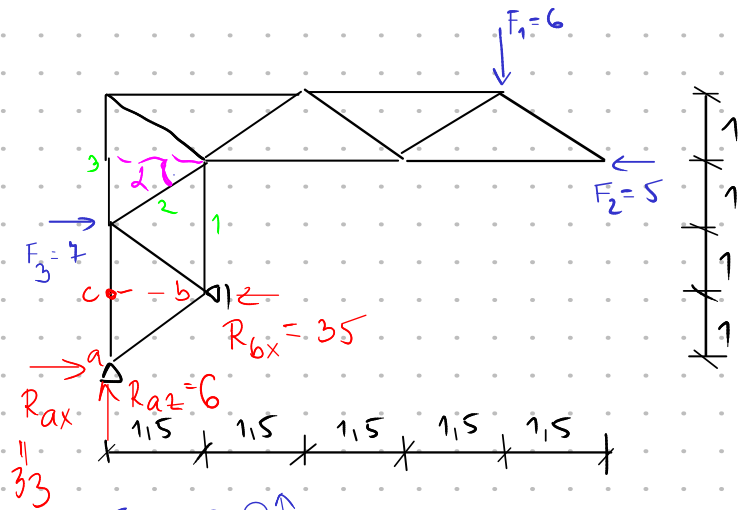






$$\sum F_{zi} = 0 \oplus \uparrow$$

$$R_{az} - F_1 = 0 \Rightarrow \underline{R_{az} = 6 \text{ kN}}$$

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

$$R_{bx} \cdot 1 - F_3 \cdot 2 - F_1 \cdot 6 + F_2 \cdot 3 = 0$$

$$\underline{R_{bx} = 35 \text{ kN}}$$

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

$$R_{ax} \cdot 1 - F_3 \cdot 1 - F_1 \cdot 6 + F_2 \cdot 2 = 0$$

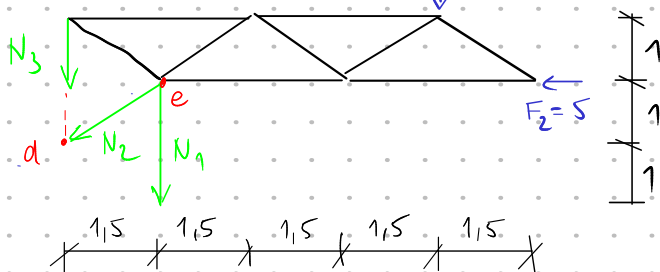
$$\underline{R_{ax} = 33 \text{ kN}}$$

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

$$R_{ax} - R_{bx} + F_3 - F_2 = 0 \checkmark$$

$$l_2 = \sqrt{1^2 + 1.5^2} = \frac{\sqrt{13}}{2}$$

$$\cos \alpha = \frac{1.5}{l_2} = \frac{3}{\sqrt{13}}$$



$$\sum M_{di} = 0 \oplus \downarrow$$

$$N_1 \cdot 1.5 + F_1 \cdot 6 - F_2 \cdot 1 = 0 \quad \underline{N_1 = -\frac{31}{1.5} = -20.67 \text{ kN}}$$

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

$$N_3 \cdot 1.5 - F_1 \cdot 1.5 = 0$$

$$\underline{N_3 = 18 \text{ kN}}$$

$$\sum M_{fi} = 0 \Rightarrow \sum F_{xi} = 0 \oplus \leftarrow$$

$$N_2 + F_2 = 0$$

$$N_2 = -\frac{F_2}{\cos \alpha} = -\frac{5\sqrt{13}}{3} = -6.0098 \text{ kN}$$