

$$\sum F_{ix} = 0;$$

$$R_{bx} - 3\text{kN} = 0$$

$$\underline{R_{bx} = 3\text{kN}}$$

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

$$R_{az} + R_{bz} - 10 \cdot 6 / 2 = 0$$

$$\underline{R_{az} + R_{bz} = 30\text{kN}} \checkmark$$

$$\sum M_{ia} = 0;$$

$$-10 \cdot 6 / 2 \cdot \frac{2}{3} \cdot 6 + R_{bz} \cdot 6 + R_{bx} \cdot 2 = 0$$

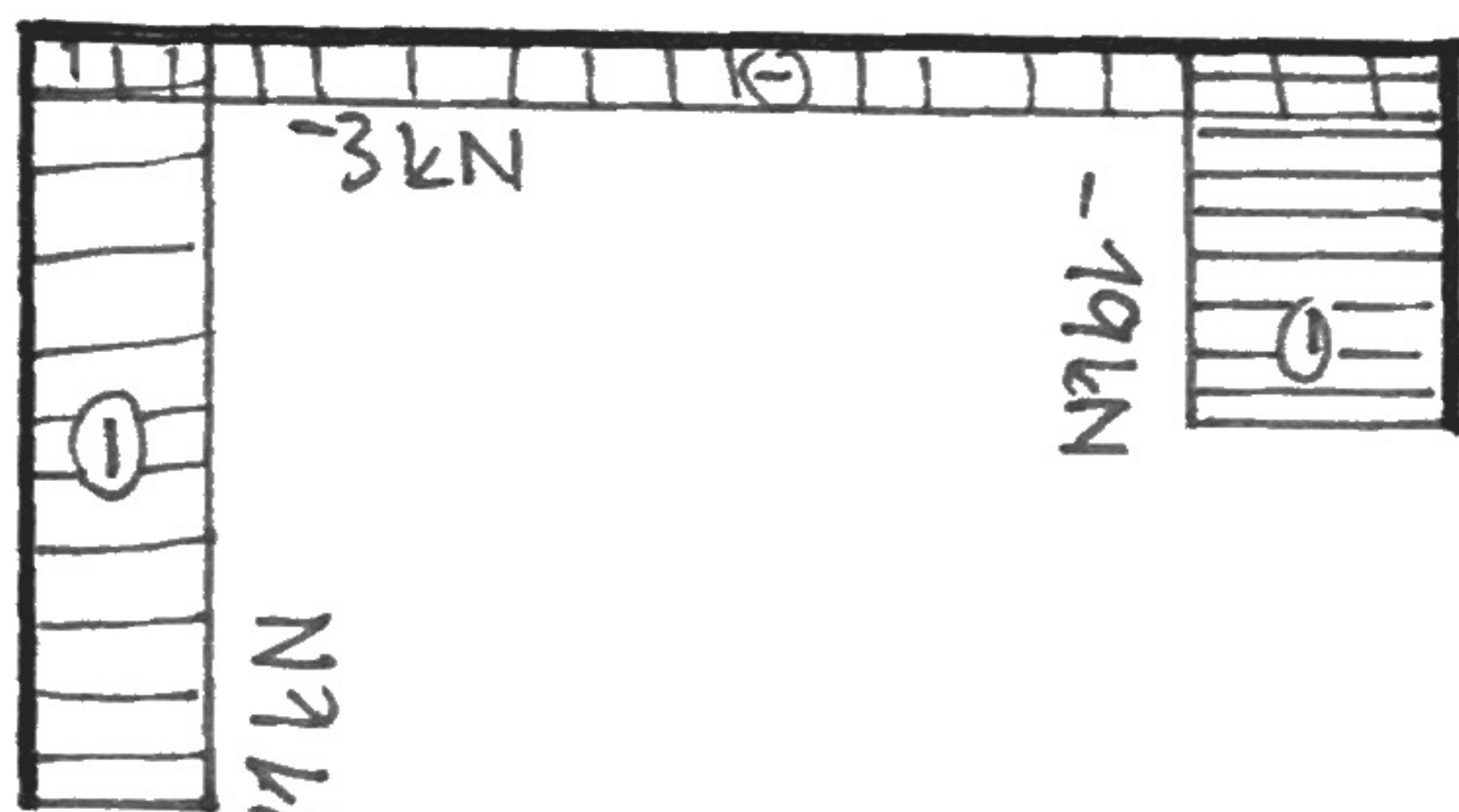
$$\underline{R_{bz} = 19\text{kN}}$$

$$\sum M_{ib} = 0;$$

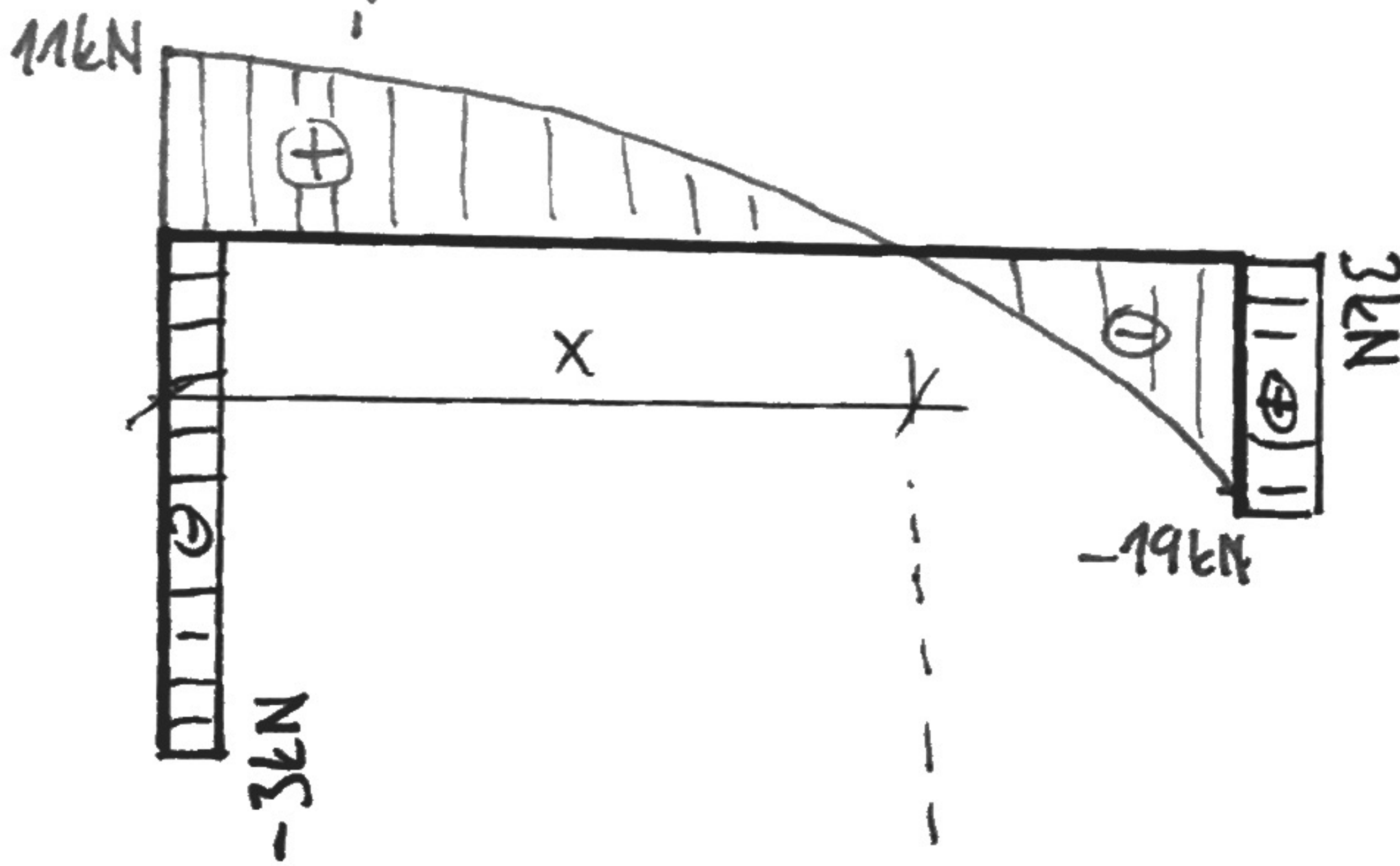
$$-3 \cdot 2 - 10 \cdot 6 / 2 \cdot \frac{1}{3} \cdot 6 + R_{az} \cdot 6 = 0$$

$$\underline{R_{az} = 11\text{kN}}$$

(N)



(V)



x:

$$11 - 9 \cdot \frac{x}{2} \cdot \frac{1}{2} = 0$$

$$11 - 10 \cdot \frac{x}{6} \cdot x \cdot \frac{1}{2} = 0$$

$$11 - 0,8333x^2 = 0$$

$$x = \sqrt{\frac{11}{0,8333}} = \underline{3,634\text{m}}$$

$$M_{\max}^L = -3 \cdot 3 + R_{az} \cdot x$$

$$-10 \cdot \frac{x}{6} \cdot \frac{x}{2} \cdot \frac{x}{3}$$

$$= \underline{17,643\text{ kNm}}$$

(M)

