

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

$$R_{ax} - 2 \text{ kN} = 0$$

$$\underline{R_{ax} = 2 \text{ kN}}$$

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

$$R_{az} + R_{bz} = 10 \cdot 5 / 2$$

$$\underline{R_{az} + R_{bz} = 25 \text{ kN} \checkmark}$$

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

$$-10 \cdot 5 / 2 \cdot \frac{5}{3} + R_{bz} \cdot 5 + 2 \cdot 4 = 0$$

$$\underline{R_{bz} = 6,73 \text{ kN}}$$

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

$$R_{az} \cdot 5 - R_{ax} \cdot 4 - 10 \cdot 5 / 2 \cdot \frac{2}{3} \cdot 5 = 0$$

$$\underline{R_{az} = 18,27 \text{ kN}}$$

$$\textcircled{x:} -6,73 + q \cdot \frac{x}{2} \cdot x \cdot \frac{1}{2} = 0$$

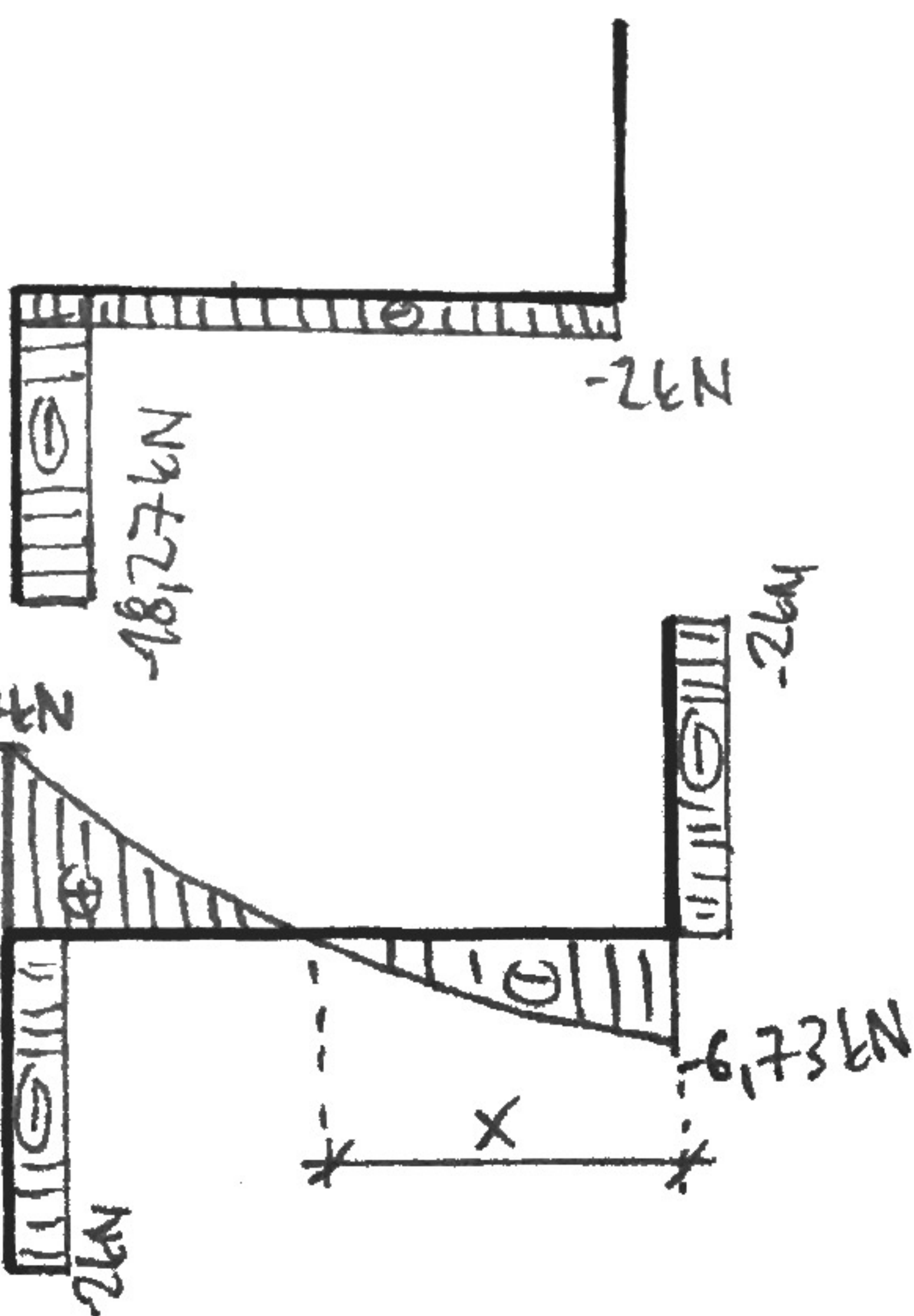
$$-6,73 + 10 \cdot \frac{x}{5} \cdot x \cdot \frac{1}{2} = 0$$

$$x = \sqrt{6,73} = \underline{2,59 \text{ m}}$$

$$M(x) = R_{bz} \cdot x - q \cdot \frac{x}{2} \cdot \frac{x}{2} \cdot \frac{x}{3} + 2 \cdot 2$$

$$= \underline{15,64 \text{ kNm}}$$

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