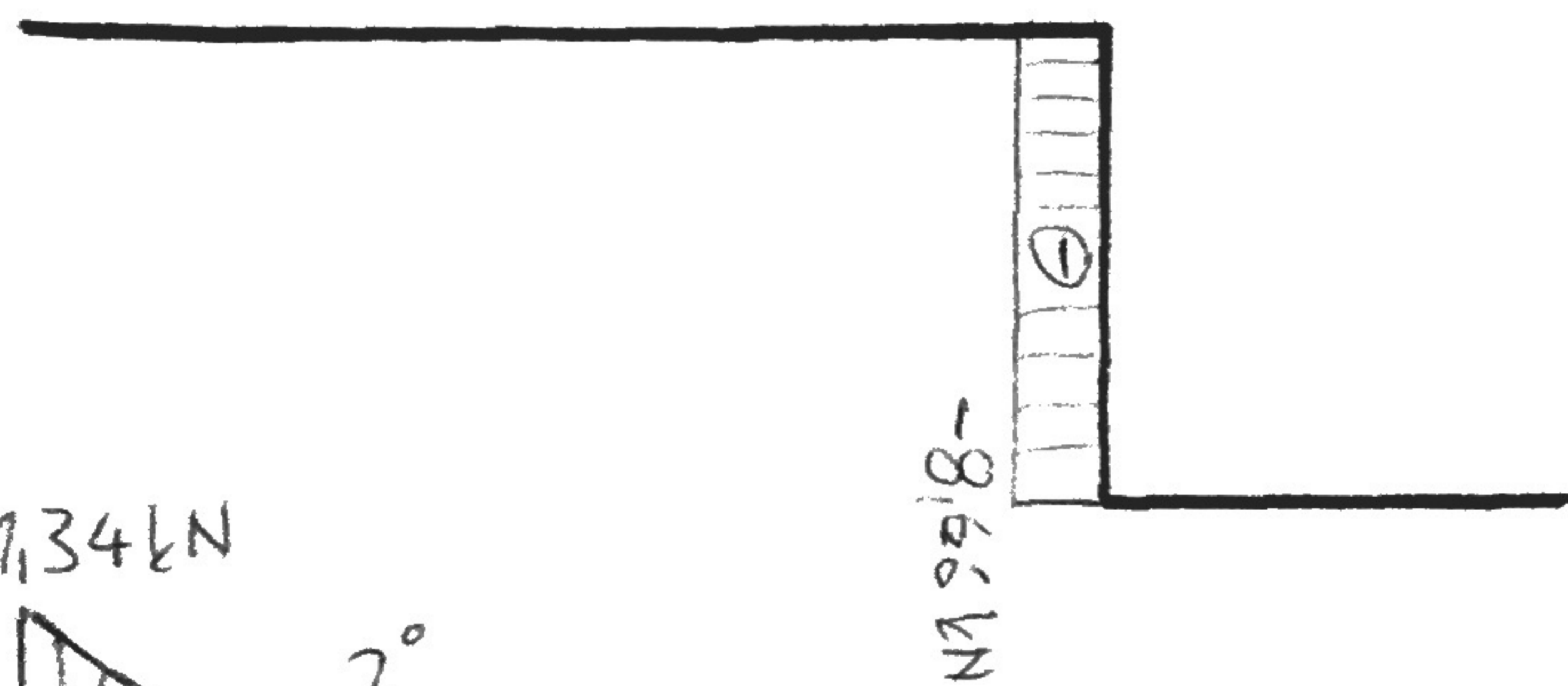
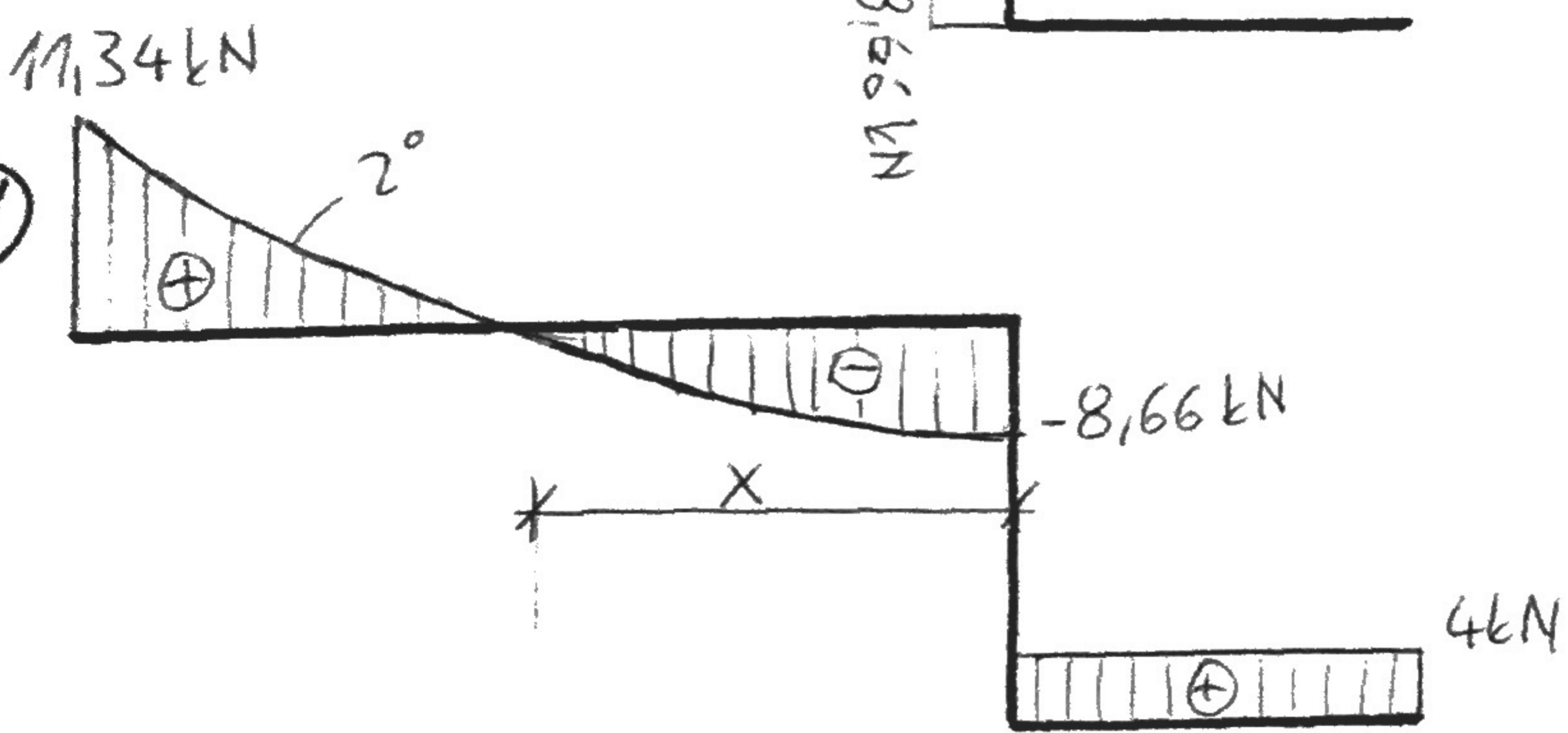


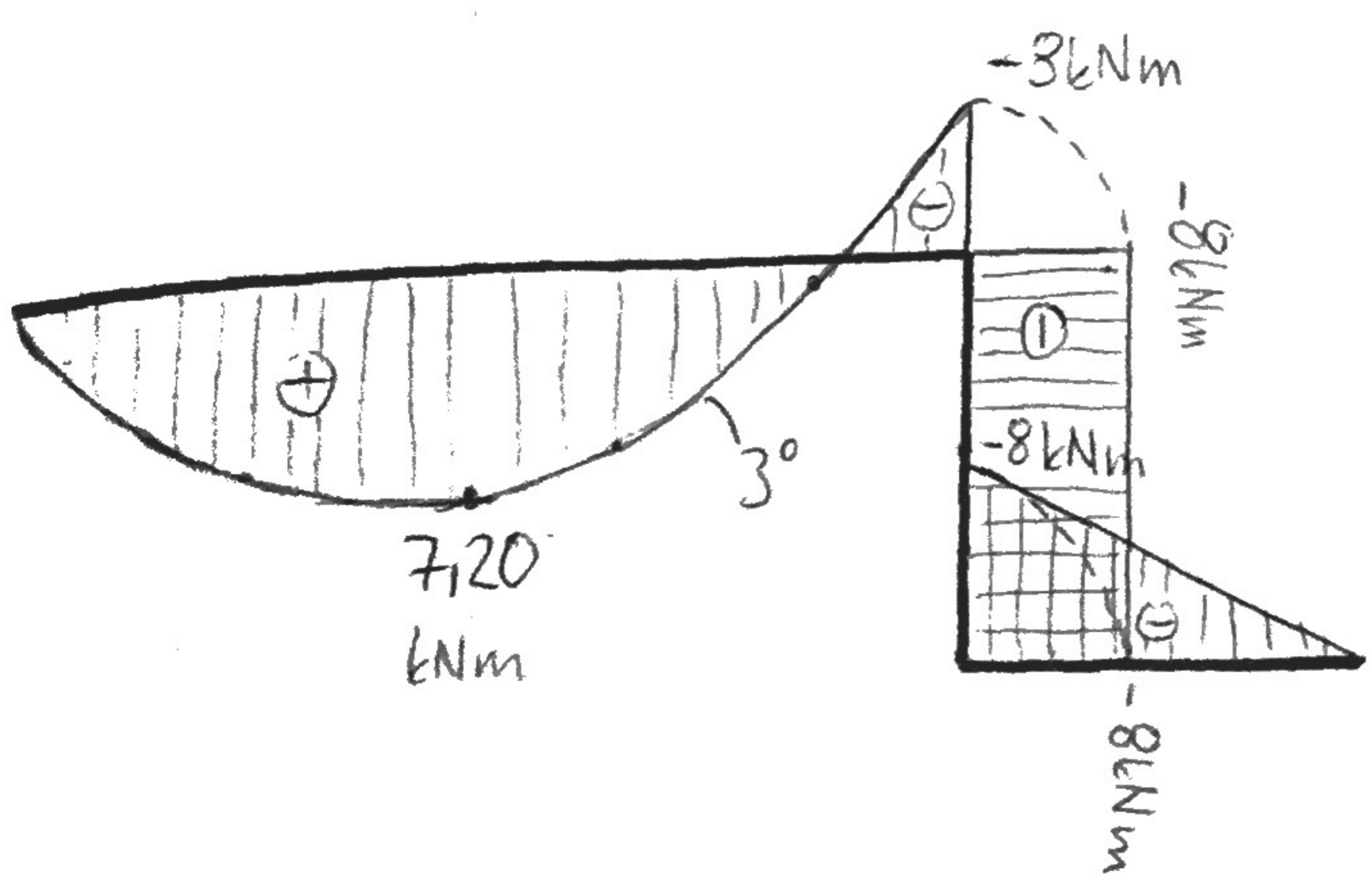
(N)



(V)



(M)



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

$$\underline{R_{ax} = 0 \text{ kN}}$$

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

$$R_{az} + R_{bz} - 10 \cdot 4/2 - 4 = 0$$

$$\underline{R_{az} + R_{bz} = 24 \text{ kN}} \checkmark$$

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

$$-4 \cdot 6 + R_{bz} \cdot 4 - 10 \cdot 4/2 \cdot \frac{1}{3} \cdot 4 = 0$$

$$\underline{R_{bz} = 12.66 \text{ kN}}$$

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

$$0 = R_{az} \cdot 6 - 10 \cdot 4/2 \cdot (2 + \frac{2}{3} \cdot 4) + R_{bz} \cdot 2$$

$$\underline{R_{az} = 11.34 \text{ kN}}$$

x:

$$-8.66 + 9 \cdot \frac{x}{2} \cdot x \cdot \frac{1}{2} = 0$$

$$-8.66 + x^2 \cdot 1.125 = 0$$

$$x = \pm \sqrt{\frac{8.66}{1.125}} = \underline{\underline{2.63 \text{ m}}}$$

$$M_x^P = -4 \cdot (2+x) + R_{bz} \cdot x -$$

$$-10 \cdot \frac{x}{4} \cdot \frac{x}{2} \cdot \frac{x}{3} = \underline{\underline{7.20 \text{ kNm}}}$$