

$$q = q_p \cdot \cos^2 \alpha = 2.56 \text{ kN/m}$$

$$n = q_p \cdot \cos \alpha \cdot \sin \alpha = -1.92 \text{ kN}$$

$$\alpha = 360 - \arctan\left(\frac{3}{4}\right) = 323.130^\circ$$

$$\sum F_{ix} = 0: R_{bx} = 20 \text{ kN} (\leftarrow)$$

$$\sum M_{ia} = 0 \quad (\curvearrowright)$$

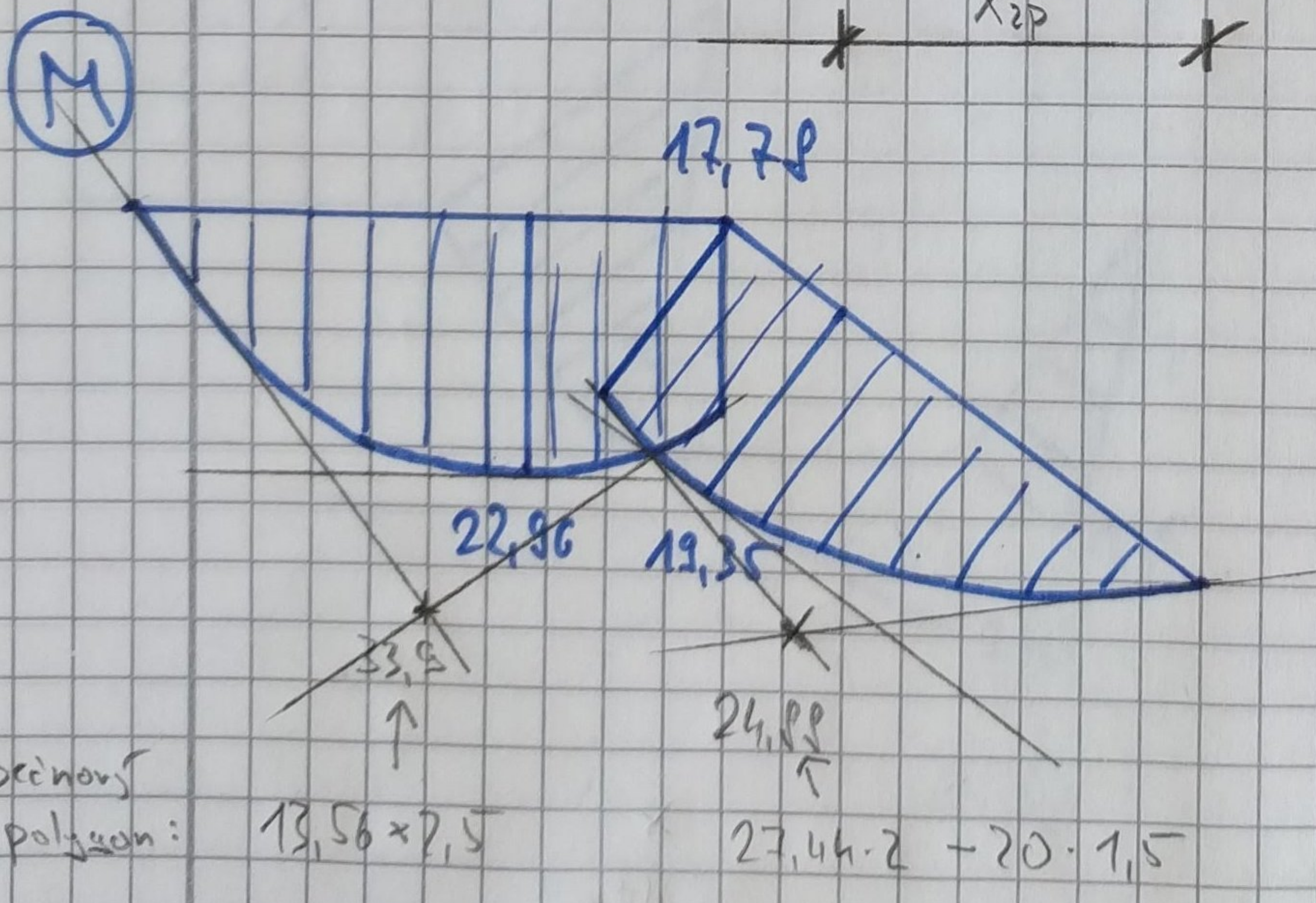
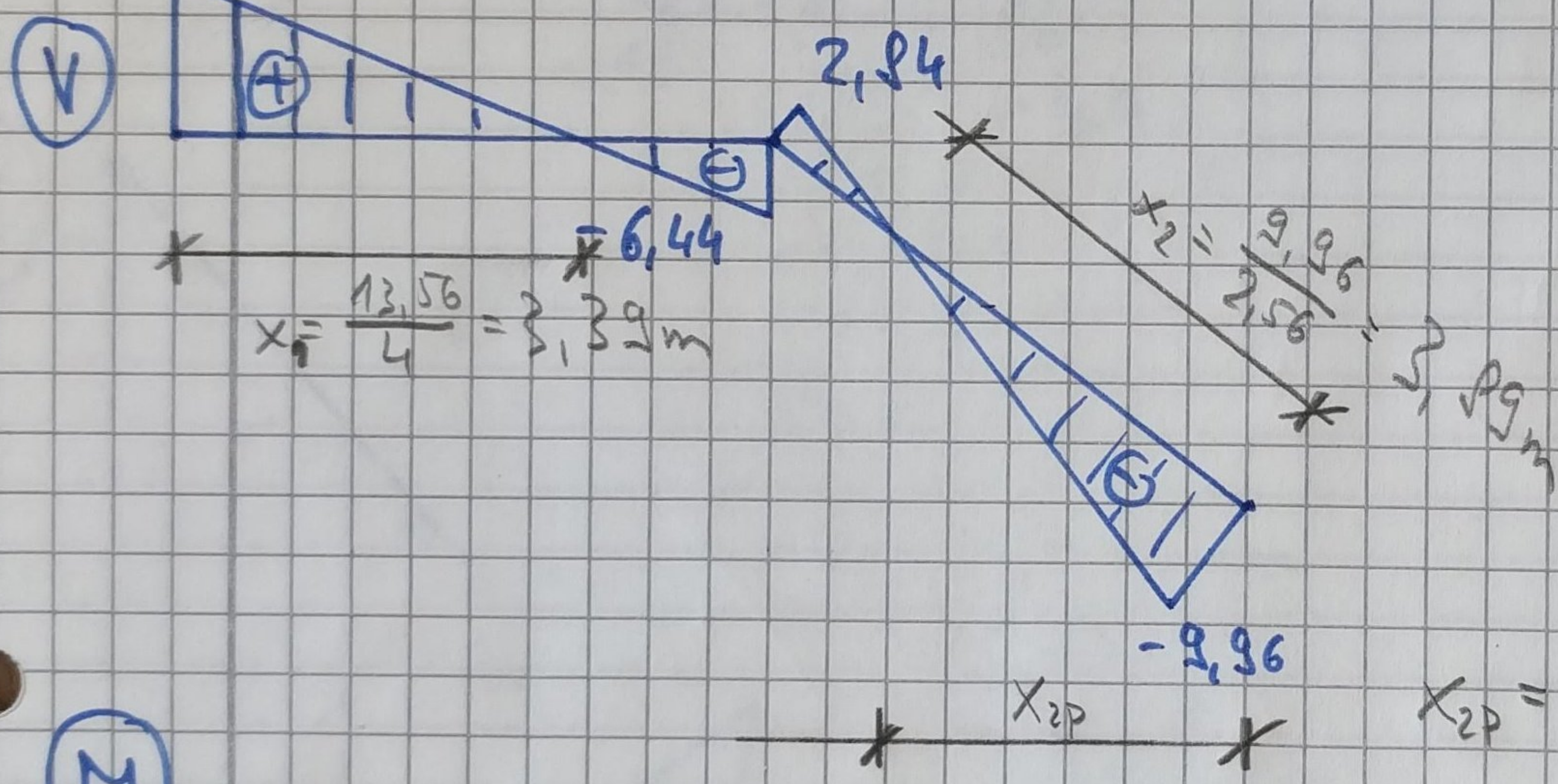
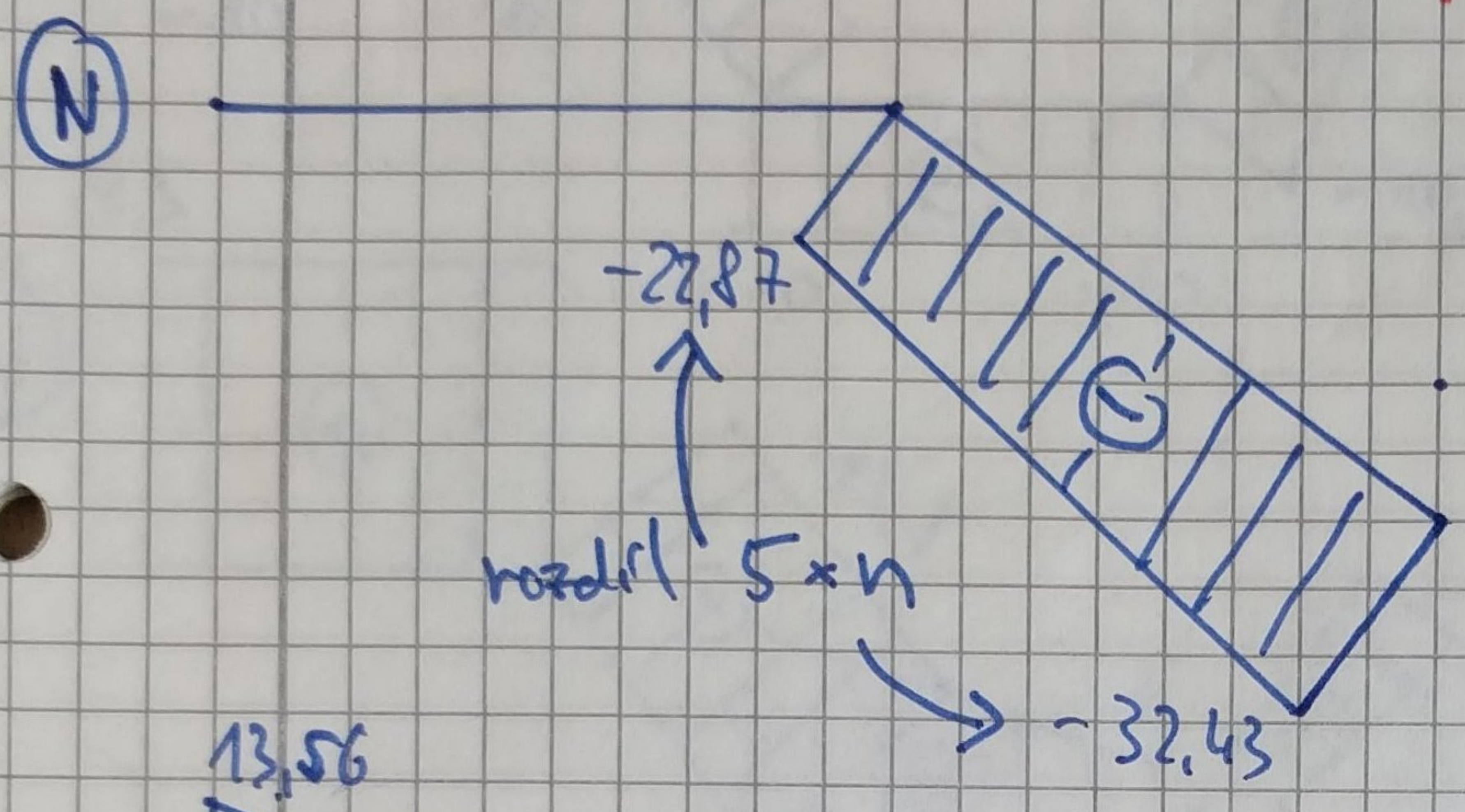
$$-\frac{q_p \cdot 9^2}{2} - F_1 \cdot 5 - R_{bx} \cdot 3 + R_{bz} \cdot 9 = 0$$

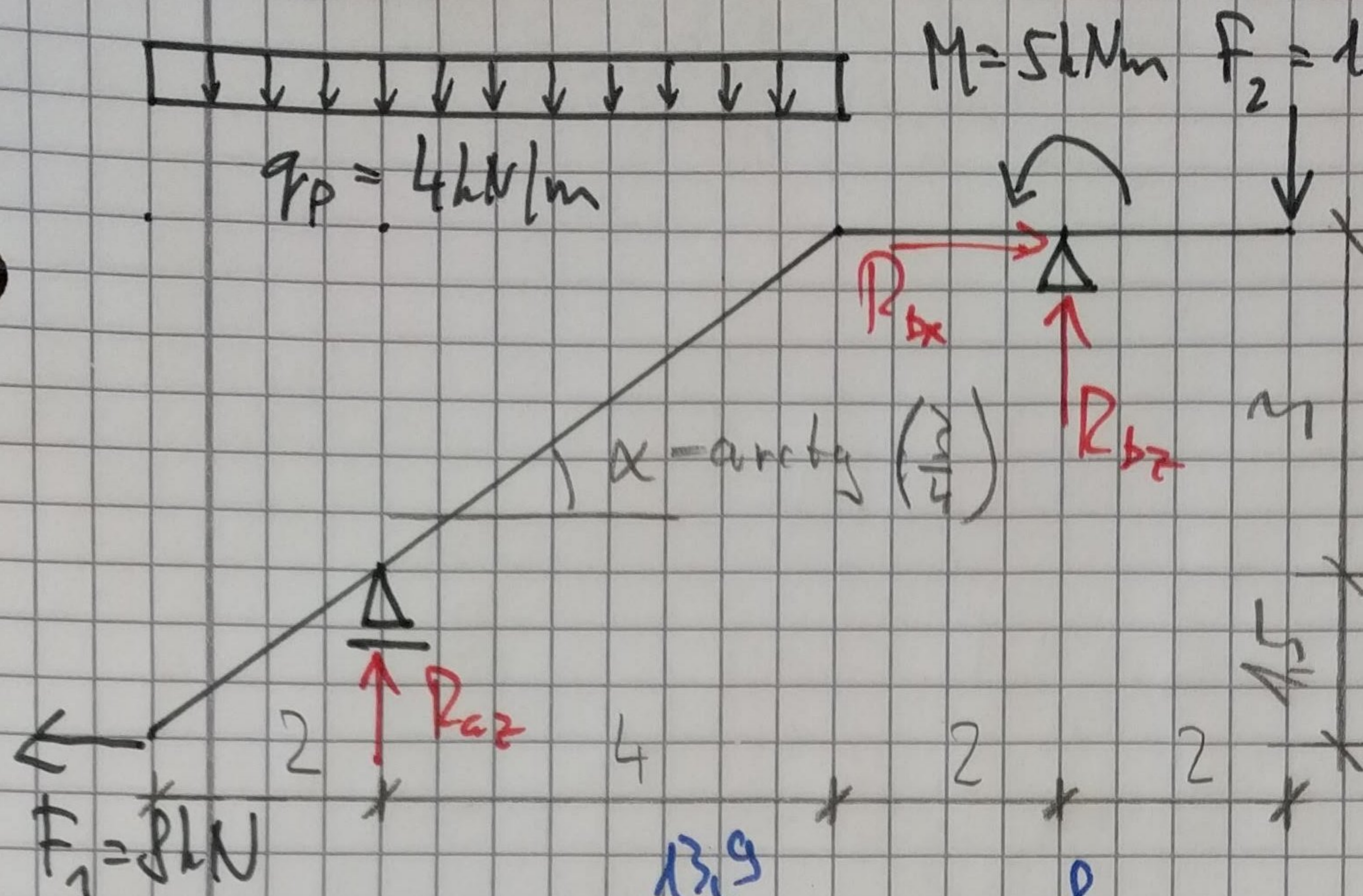
$$R_{bz} = 27.44 \text{ kN} (\uparrow)$$

$$\sum M_{ib} = 0 \quad (\curvearrowright)$$

$$-R_{az} \cdot 9 + \frac{q \cdot 9^2}{2} + F_1 \cdot 4 - F_2 \cdot 3 = 0$$

$$R_{az} = 13.56 \text{ kN} (\uparrow)$$



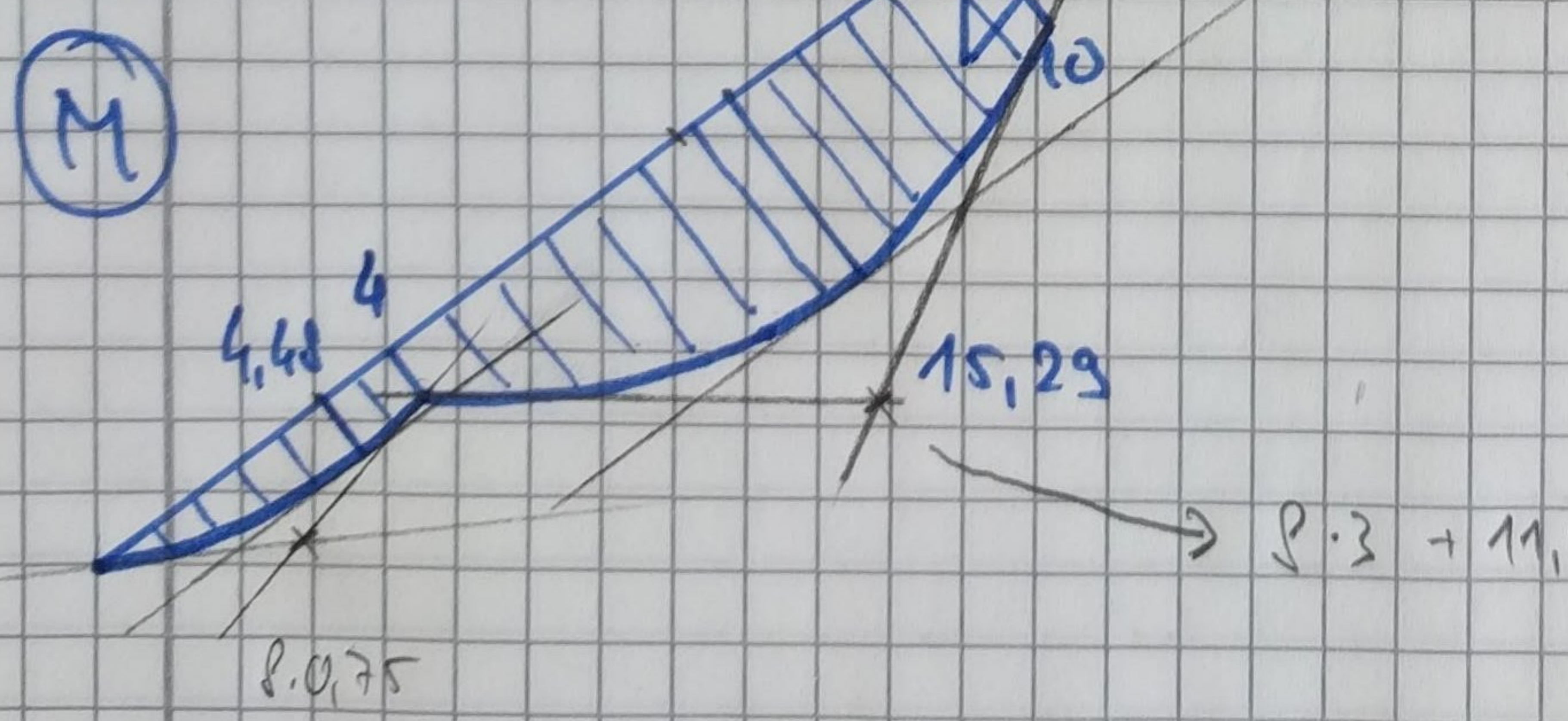
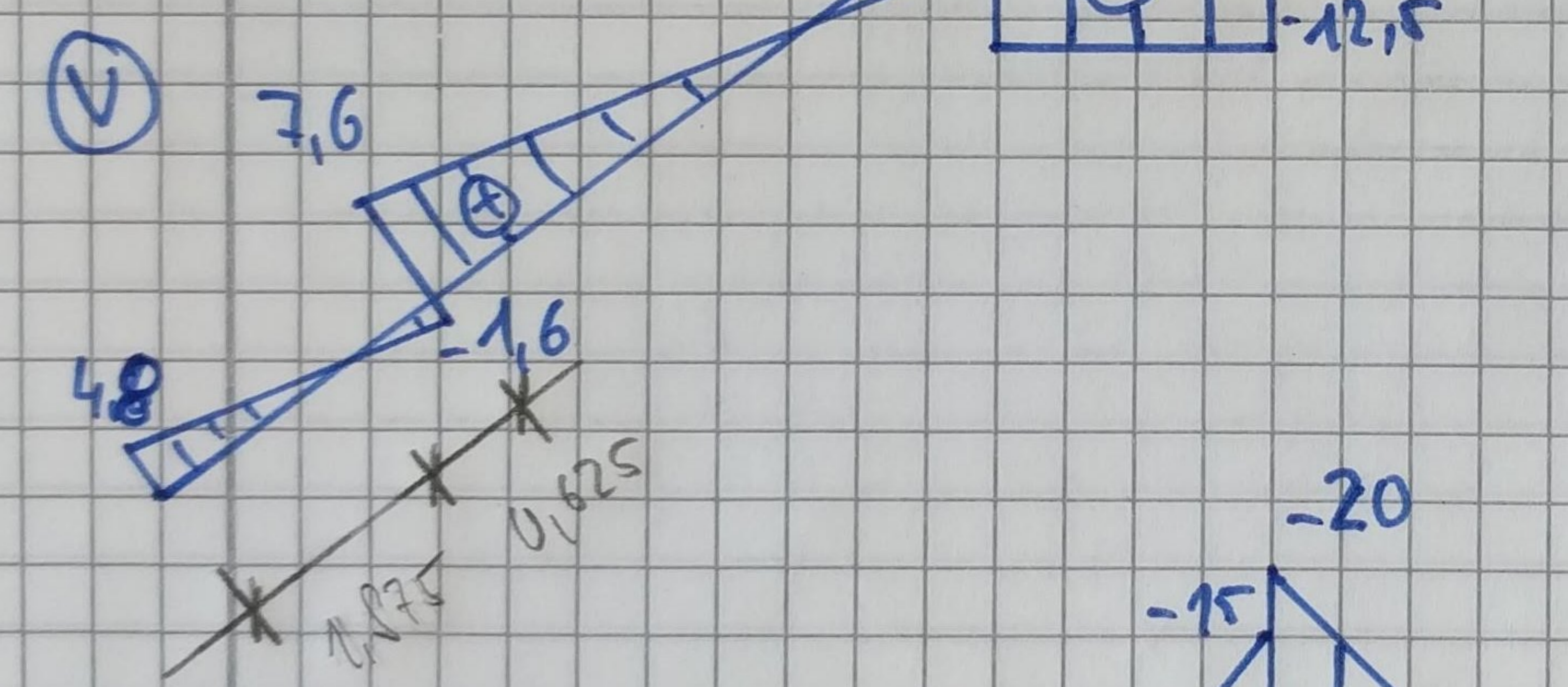
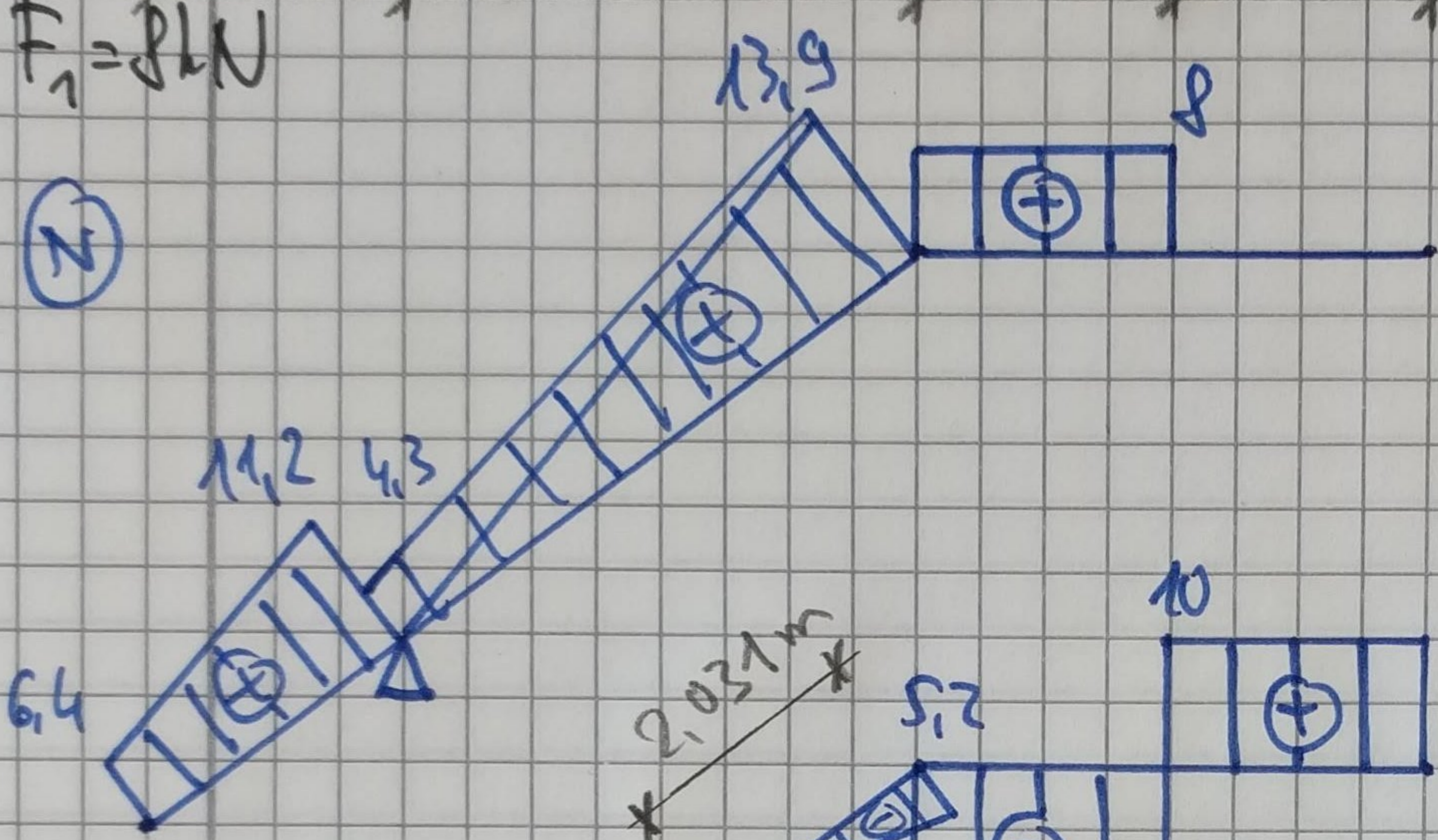


$q_d = 3,2 \text{ kN/m}$
 $q = 2,56 \text{ kN/m}$
 $w = 1,92 \text{ kN/m}$

$\sum F_{ix} = 0$
 $R_{bx} = 8 \text{ kN} (\rightarrow)$

$\sum M_{ia} = 0 \text{ (ccw)}$
 $-F_1 \cdot 1,5 - q_p \cdot 6 \cdot 1 + M -$
 $-F_2 \cdot 8 - R_{bx} \cdot 3 +$
 $+ R_{bz} \cdot 6 = 0$
 $R_{bz} = 22,5 \text{ kN} (\uparrow)$

$\sum M_{ib} = 0 \text{ (ccw)}$
 $-R_{az} \cdot 6 - F_1 \cdot 4,5 +$
 $+ q_p \cdot 6 \cdot 5 + M -$
 $-F_2 \cdot 2 = 0$
 $R_{az} = 11,5 \text{ kN} (\uparrow)$



$\rightarrow 8 \cdot 3 + 11,5 \cdot 2 - 4 \cdot 2 \cdot 3 = 23,0$