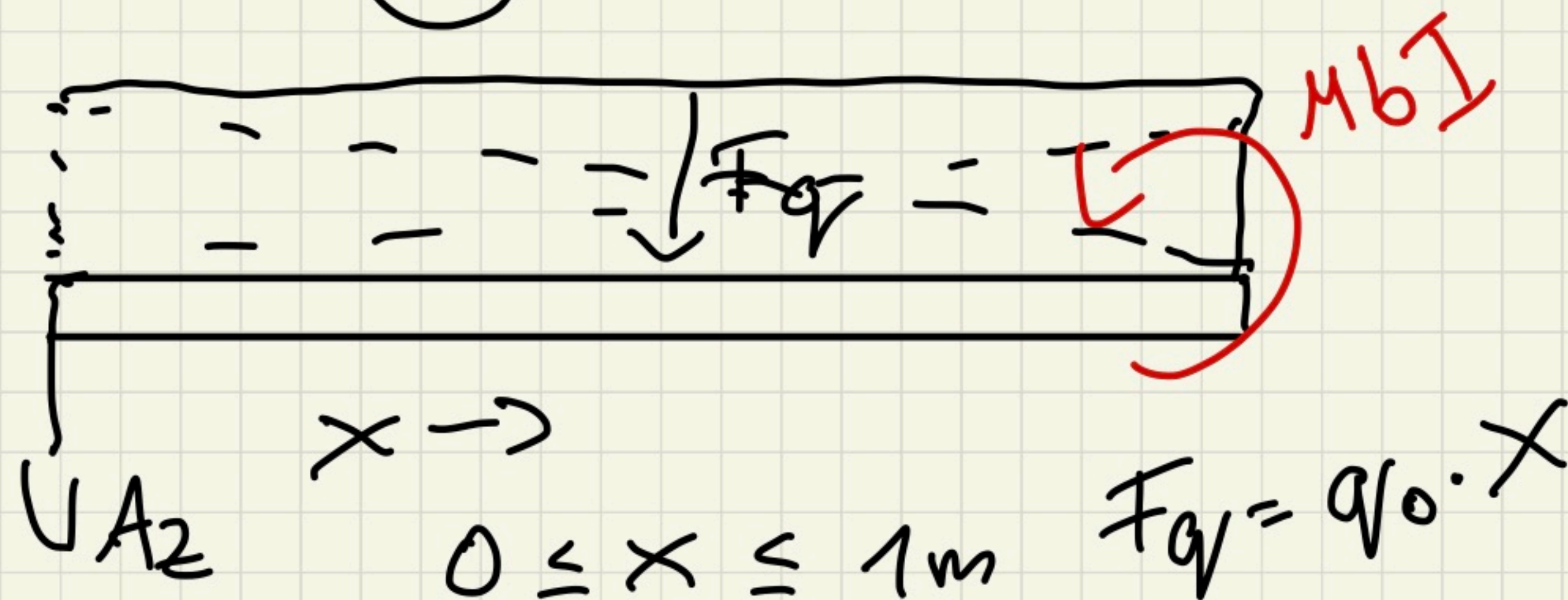


$$F = 3 \text{ kN} \quad F_q = 2 \text{ kN} \quad A_z = 0,5 \text{ kN}$$

$$B_z = -5,5 \text{ kN}$$

schnitt (I)



$$\sum M^{(I)} = 0 \quad q_0 \cdot x \cdot \frac{x}{2} + A_z \cdot x + M_{bI} = 0$$

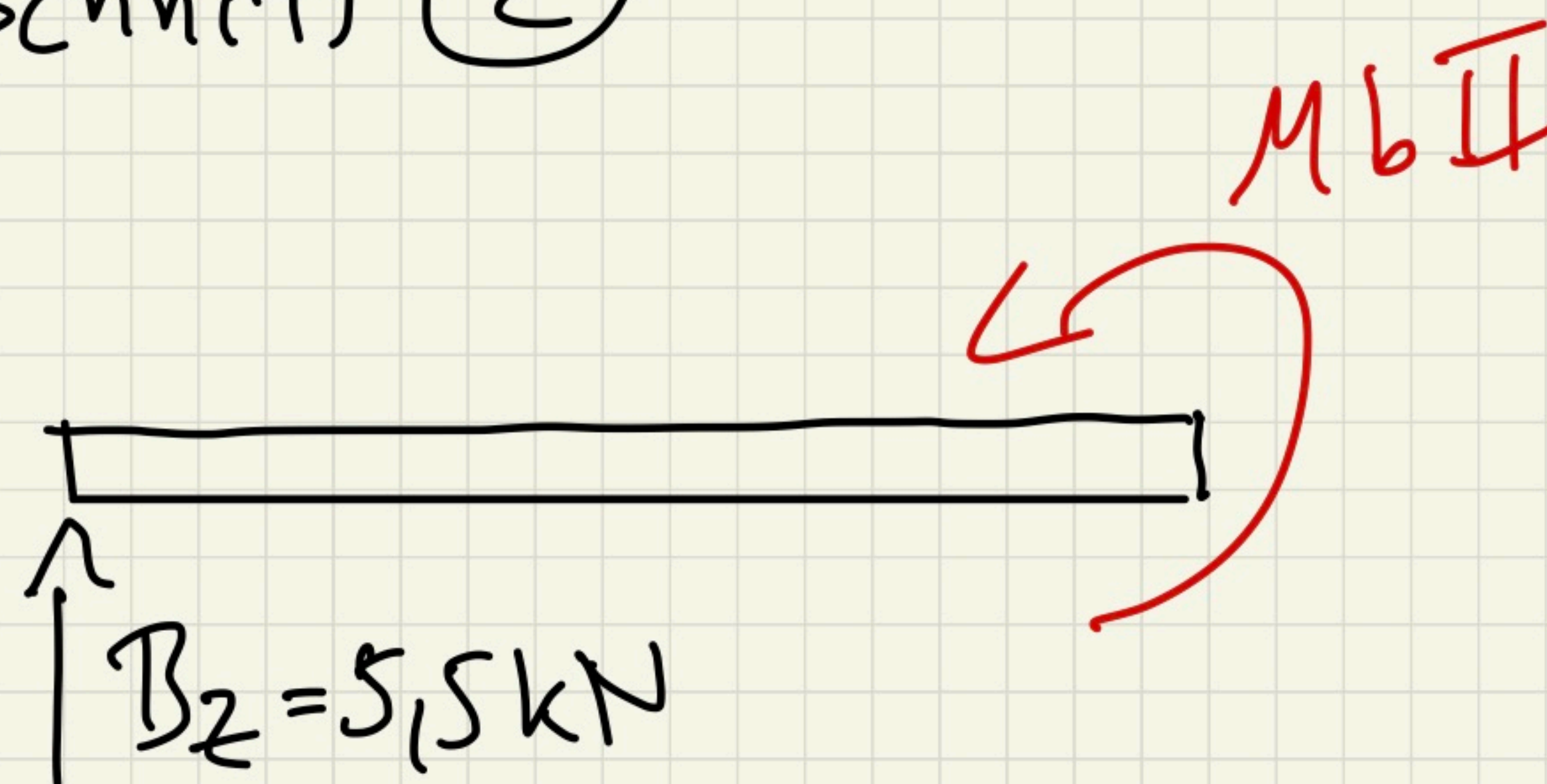
$$M_{bI} = -q_0 \cdot \frac{x^2}{2} - A_z \cdot x$$



$$x = 0\text{m} \quad M_{bI} = 0$$

$$x = 1\text{m} \quad M_{bI} = -1,5\text{kNm}$$

Schnitt ②



$$1\text{m} \leq x \leq 1,5\text{m}$$

$$\sum M_y^{(II)} = 0 \quad q_0 \cdot \frac{x^2}{2} + A_2 \cdot x$$

$$- B_2 \cdot (x - 1\text{m}) + M_{bII} = 0$$

$$M_{bII} = -q_0 \cdot \frac{x^2}{2} - A_z \cdot x + B_z \cdot (x - 1\text{m})$$

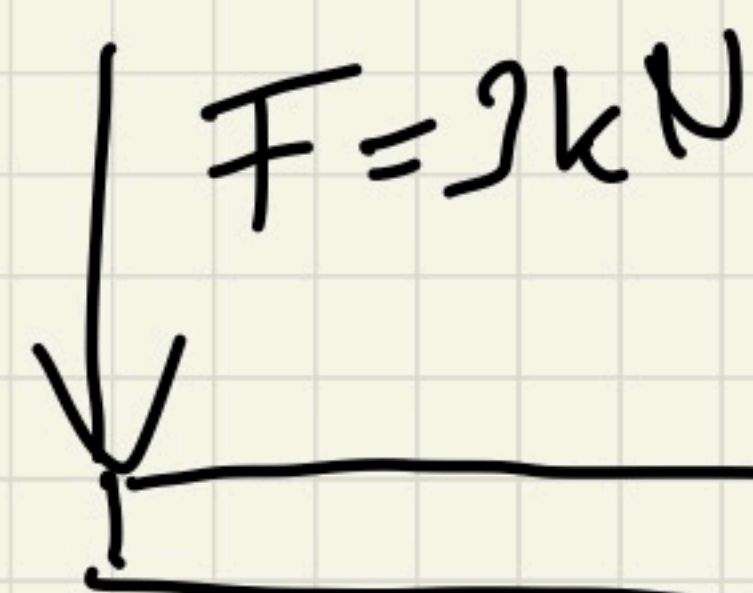
$$x = 1\text{m}$$

$$M_{bI} = -1,5\text{kNm}$$

$$x = 1,5\text{m}$$

$$M_{bI} = -0,25\text{kNm}$$

Schnitt ③



$$1,5 \leq x \leq 2\text{m}$$

$$\sum M_y^{(III)} = 0 \quad q_0 \cdot \frac{x^2}{2} + A_z \cdot x - B_z \cdot (x - 1\text{m}) + F \cdot (x - 1,5\text{m})$$

$$+ M_{bIII} = 0$$

$$M_{bIV} = - q_0 \cdot \frac{x^2}{2} - A_z \cdot x$$

$$+ B_z \cdot (x - 1m) \\ - F \cdot (x - 1,5m)$$

$$x = 1,5m \quad M_{bIII} = -0,25kNm$$

$$x = 2m \quad M_{bIII} = -1kNm$$

$$x = 1,7 \quad M_{bIII} = -0,49$$

