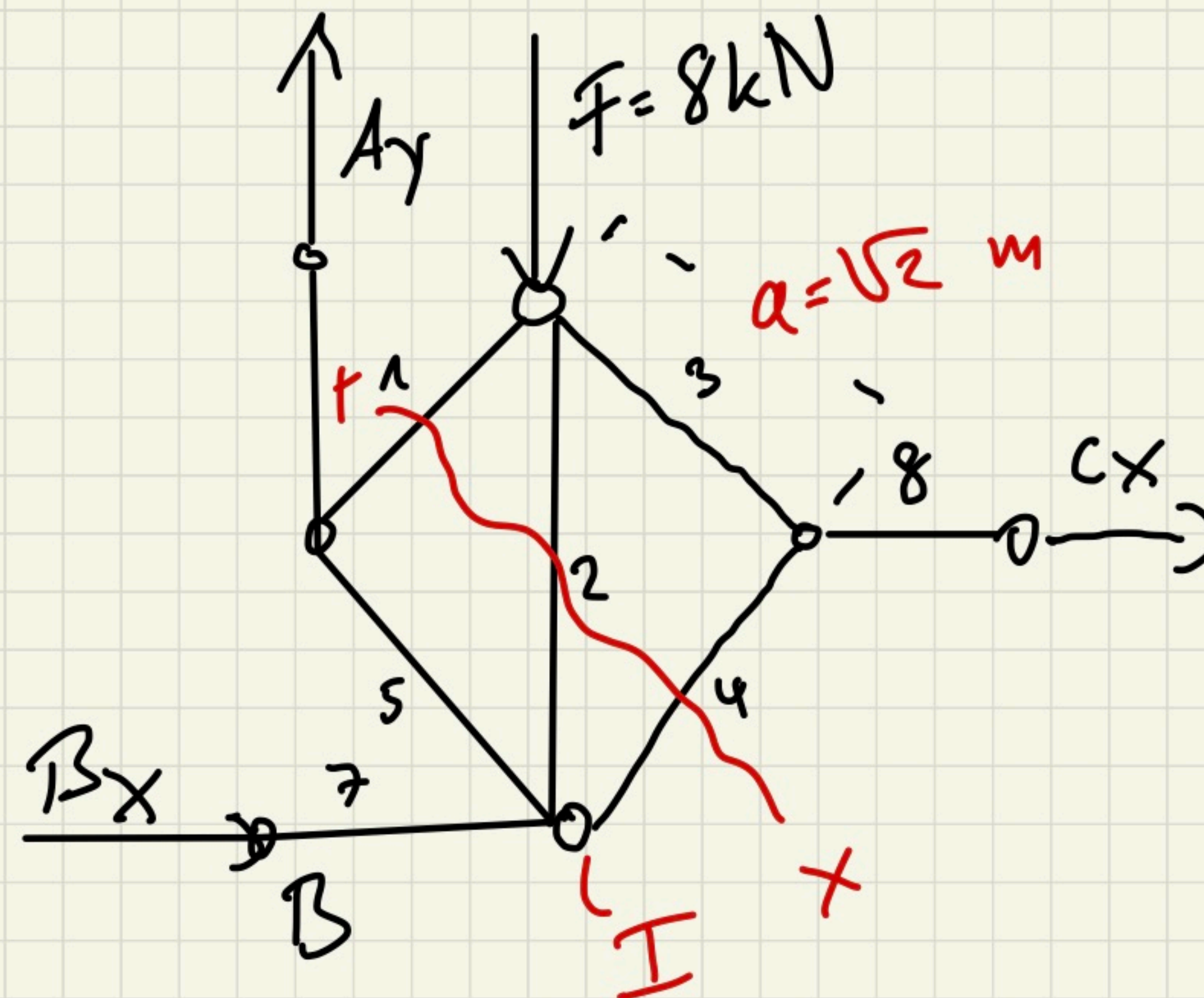




$$\sum F_x = 0$$

$$B_x + C_x = 0$$

$$\sum F_y = 0$$

$$A_y - F = 0$$



$$A_y = 8 \text{ kN}$$

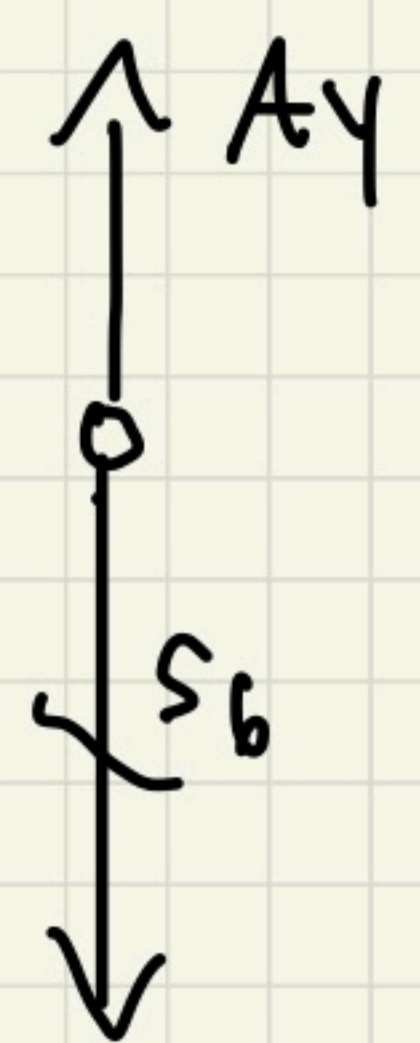
$$\sum \overset{\curvearrowright}{M}_{(I)} = 0$$

$$A_y \cdot \sqrt{2} \cdot m + C_x \cdot \sqrt{2} \cdot m$$

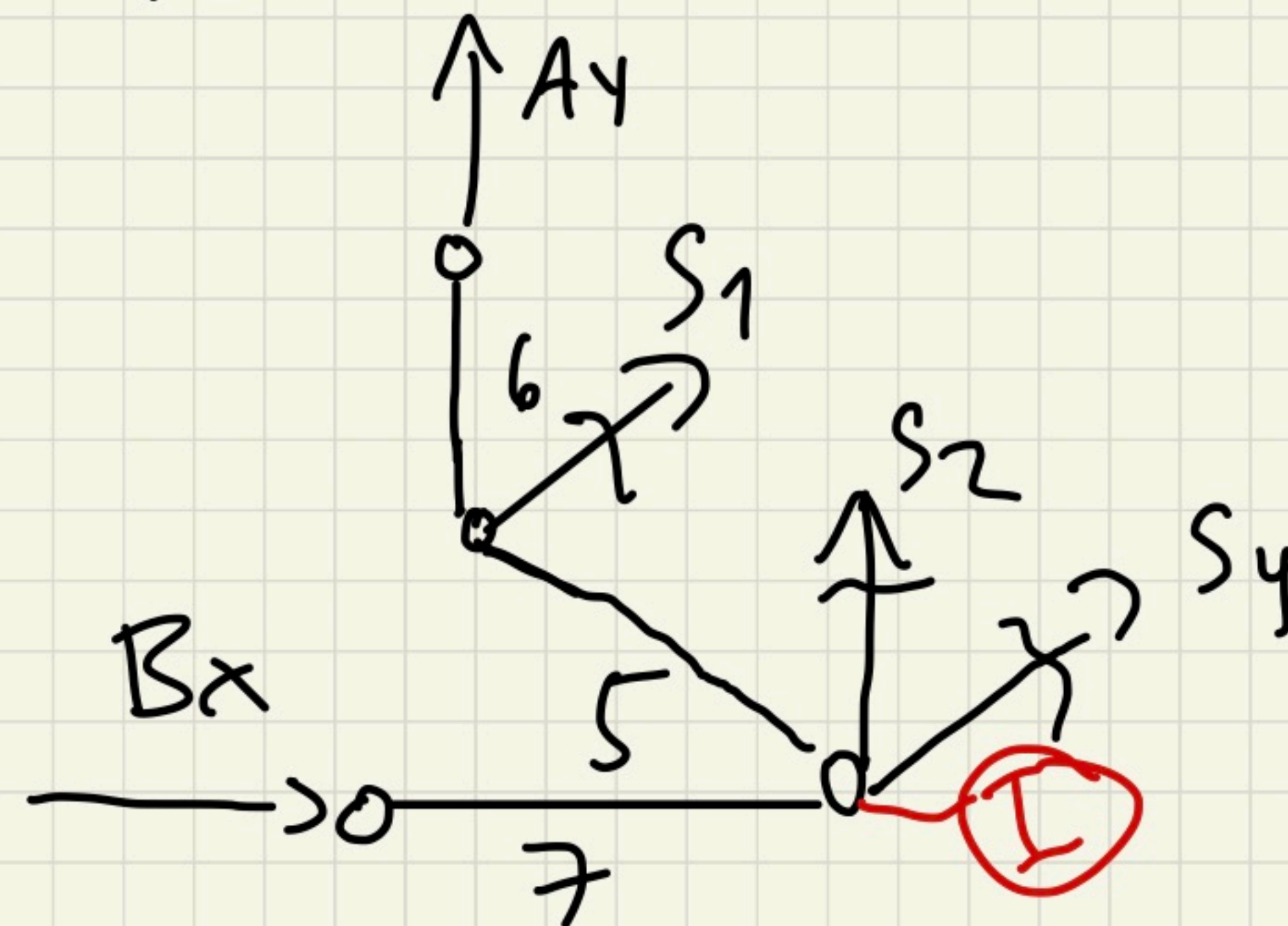
$$C_x = -A_y = -8 \text{ kN}$$

$$B_x = 8 \text{ kN}$$

Knotenverfahren:


$$\sum F_y = 0$$
$$A_y - S_6 = 0$$
$$A_y = S_6 = 8 \text{ kN}$$

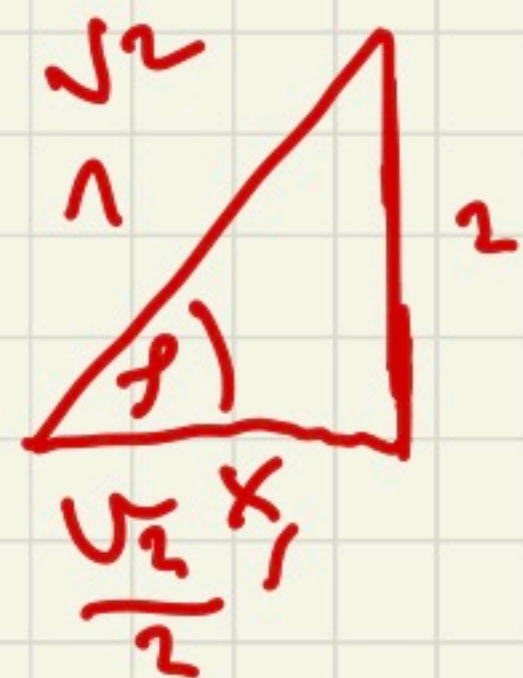
Ritter:



$$\sum \overset{G}{M}_I = 0 \quad \sqrt{2} \text{ m } A_y$$

$$+ S_1 \cdot \sin(\vartheta) \cdot \sqrt{2} \text{ m}$$

$$= 0$$



$$\cos \vartheta = \frac{\sqrt{2}}{2 \cdot \sqrt{2}}$$

$$\vartheta = 60^\circ$$

$$S_1 = \frac{-\cancel{\sqrt{2}} \text{ m} \cdot 8 \text{ kN}}{\cancel{\sqrt{2}} \text{ m} \cdot \sin 60}$$

$$S_1 =$$