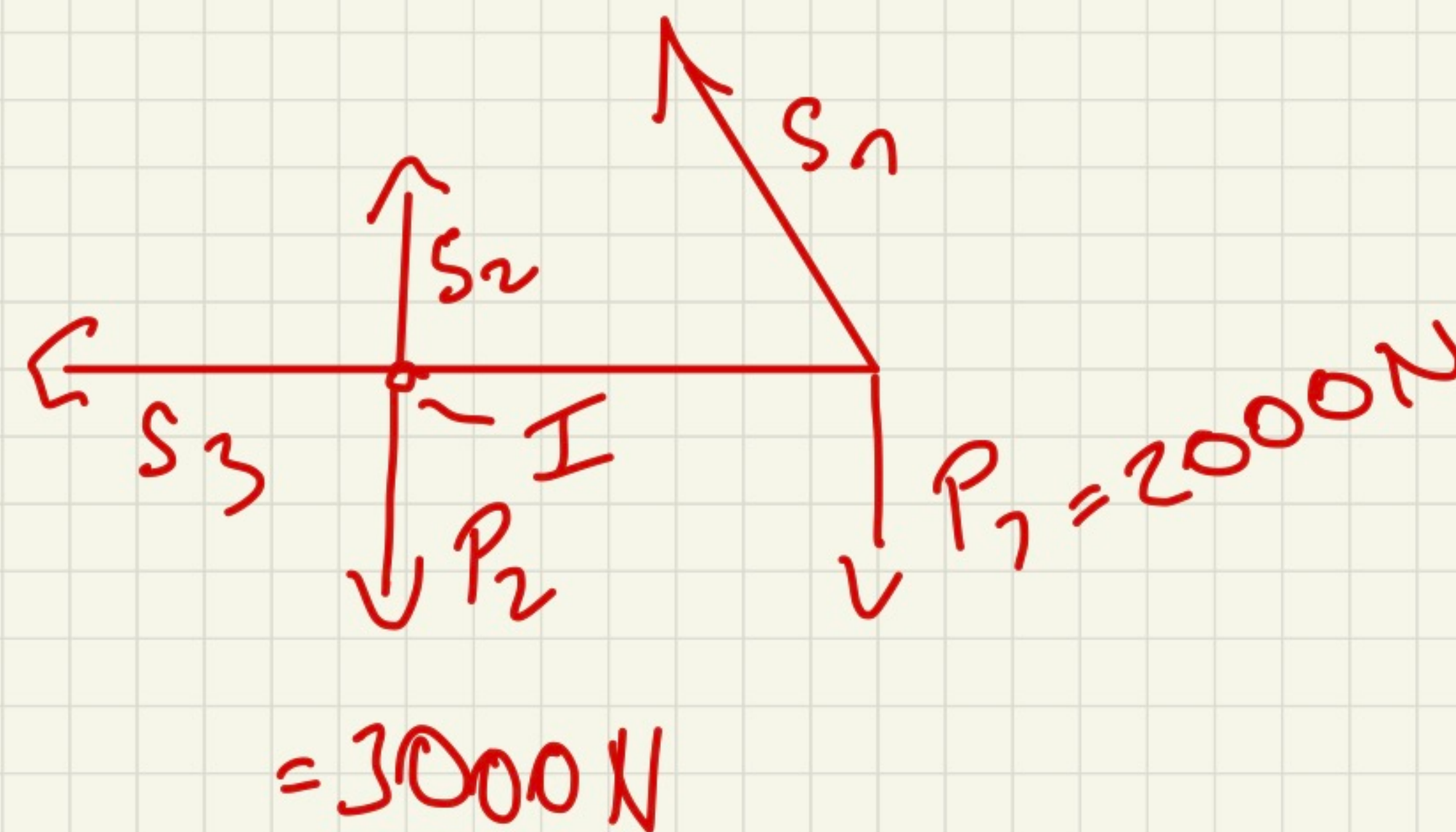




$$\sum M^{(I)} = 0$$

$$S_1 \cdot \sin 45 \cdot 2\text{ m} - P_1 \cdot 2\text{ m} = 0$$

$$S_1 = \frac{P_1 \cdot \cancel{2m}}{\cancel{2m} \sin 45} = 2828,43 \text{ N}$$

$$\sum F_x = 0$$

$$-S_3 - S_1 \cdot \cos 45 = 0$$

$$S_3 = -S_1 \cdot \cos 45$$

$$S_3 = -2828,43 \cdot \cos 45$$

$$S_3 = -2000 \text{ N}$$

$$\sum F_y = 0$$

$$-P_2 + S_2 - P_1 + S_1 \sin 45 = 0$$

$$S_2 = P_2 + P_1 - S_1 \cdot \sin 45 = 0$$

$$S_2 = 5000 \text{ N} - 2828,43 \cdot \sin 45$$

$$S_2 = 2999,997$$

$$S_2 \approx 3000 \text{ N}$$