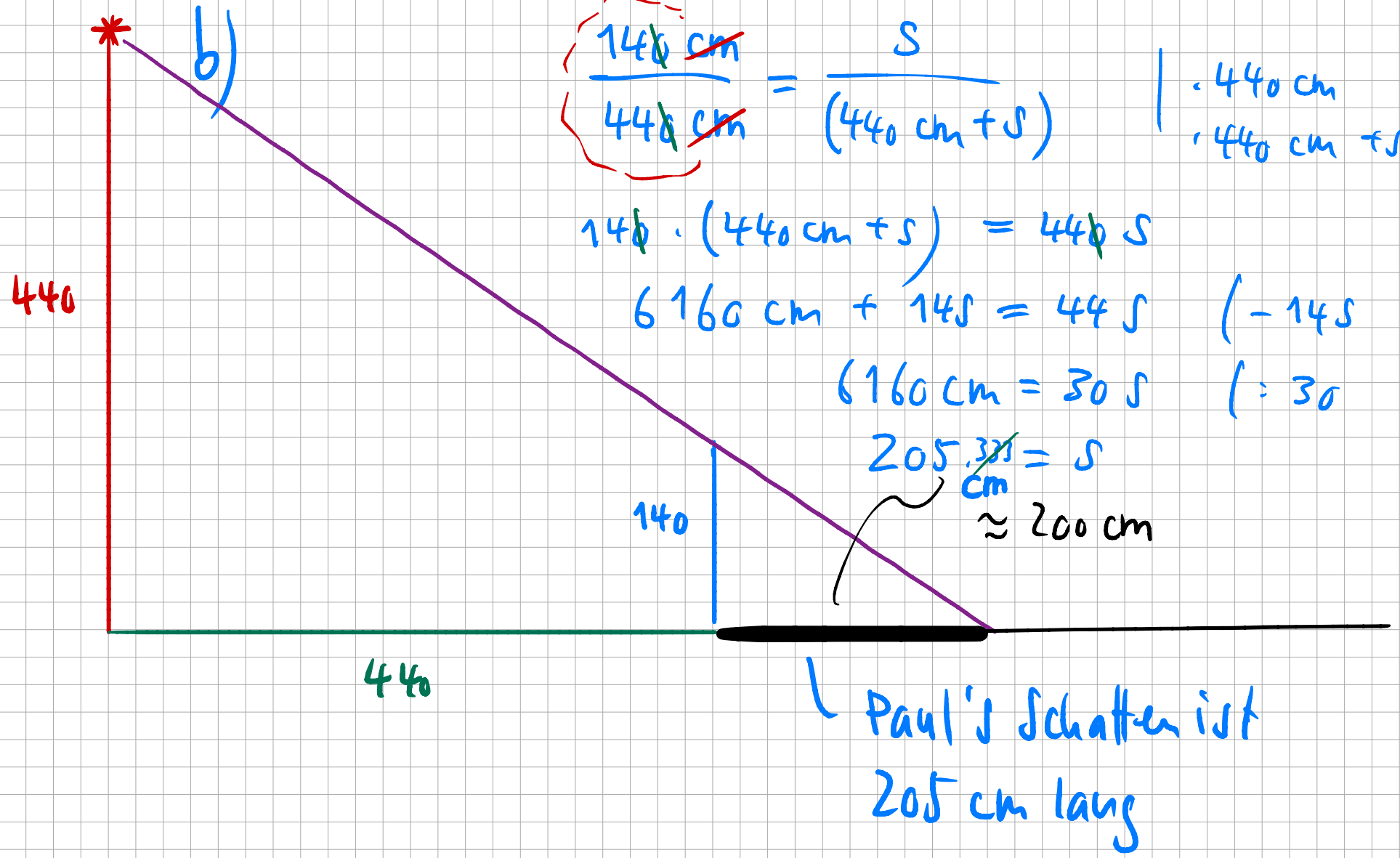
10 20 30 40 50

Optik Aufgabe 4, S 5 [gni]

⊢ ≙ 20 cm

b)



$$\frac{140\ \text{cm}}{440\ \text{cm}} = \frac{s}{(440\ \text{cm} + s)} \quad | \cdot 440\ \text{cm} \cdot (440\ \text{cm} + s)$$

$$140 \cdot (440\ \text{cm} + s) = 440\ s$$

$$6160\ \text{cm} + 140\ s = 440\ s \quad | -140\ s$$

$$6160\ \text{cm} = 300\ s \quad | : 300$$

$$205.33\ \text{cm} = s$$

$$\approx 200\ \text{cm}$$

↳ Paul's Schatten ist 205 cm lang