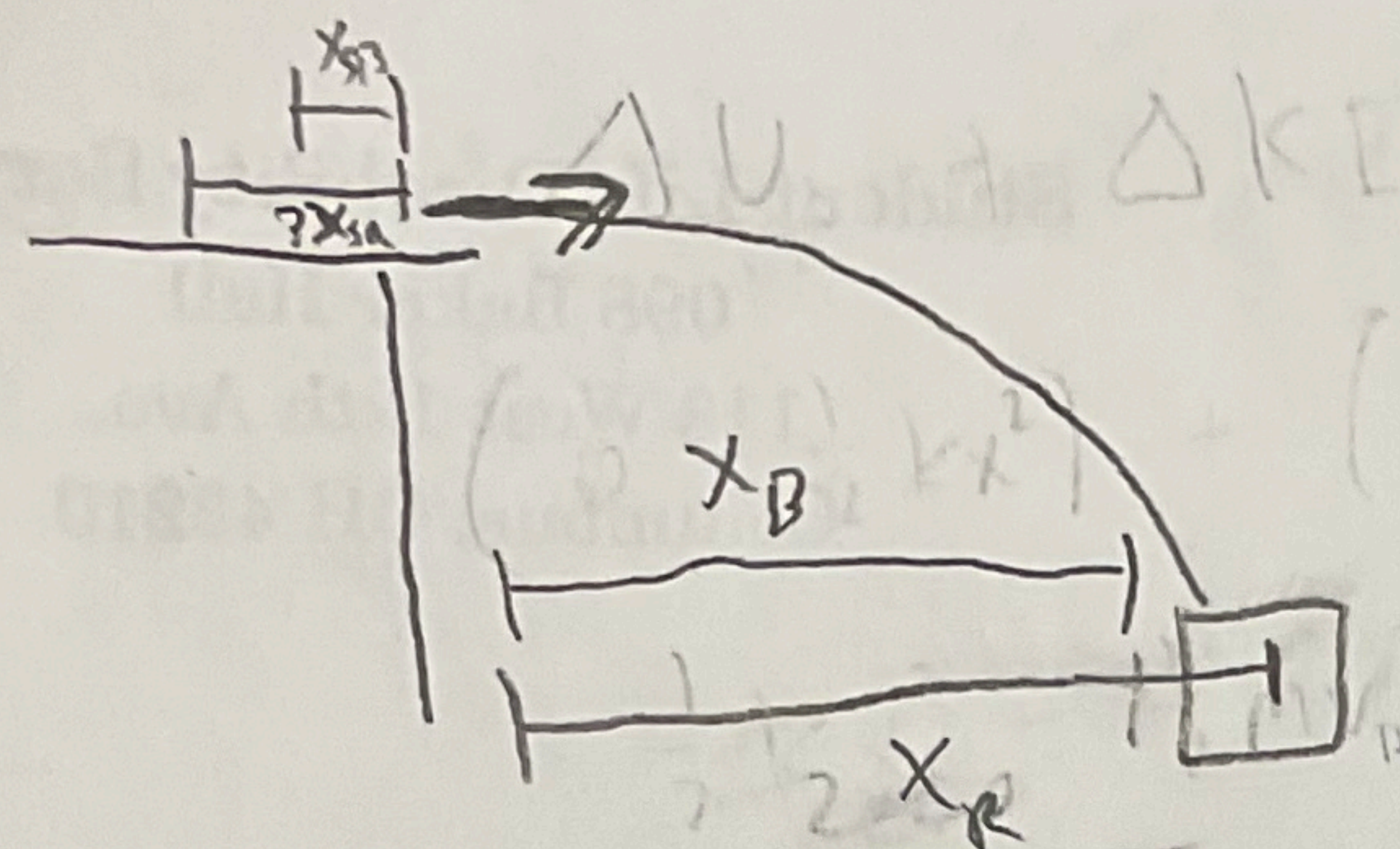


SW 1:



$$\frac{X_{SB}}{X_R} = \frac{X_B}{X_R}$$

$$X_{\text{LB}} X_{\text{B}} = X_{\text{SB}} X_{\text{R}}$$

$$x_{SR} = \frac{x_{SB} x_R}{x_B} = \frac{(0.11)(2.20)}{(2.20 - 0.27)} = 0.0125 \text{ m}$$

or
1.25 cm