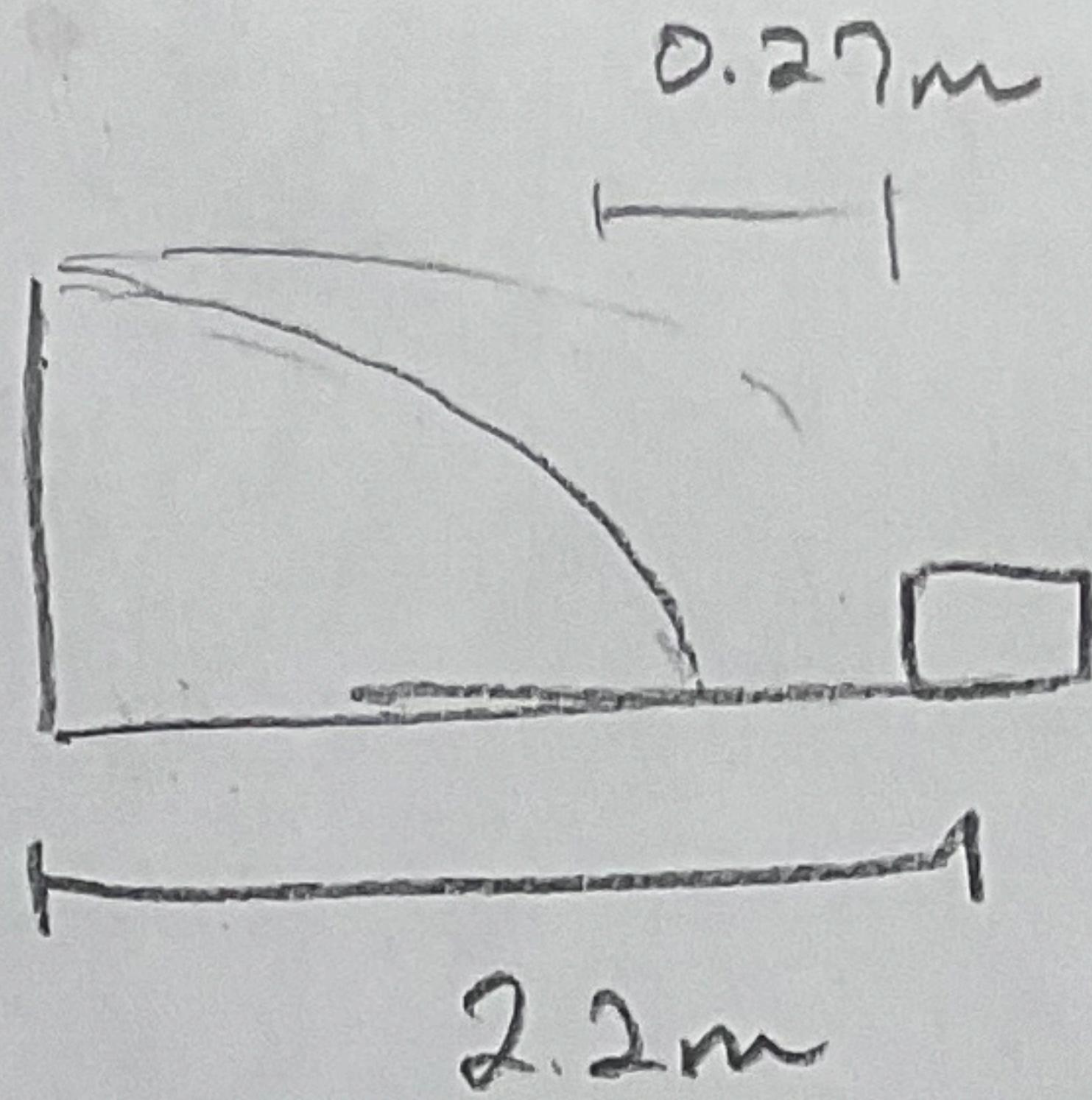


9.  $\Delta x = 1.1 \text{ cm} = \underline{0.011 \text{ m}}$



$$\Delta y = V_i t + \frac{1}{2} a t^2$$

$$\Delta y = -\frac{1}{2} (10) t^2$$

$$V_f^2 = V_i^2 + 2ad$$

$$V_f = V_i + at$$

$$V_f^2 = 2ad$$

$$\frac{1}{2} m v^2 = \frac{1}{2} k x^2 = \frac{1}{2} m \left( \frac{2.2}{t} \right)^2 = \frac{1}{2} k x^2$$

$$\frac{1}{2} k x^2 = \frac{1}{2} m v^2$$