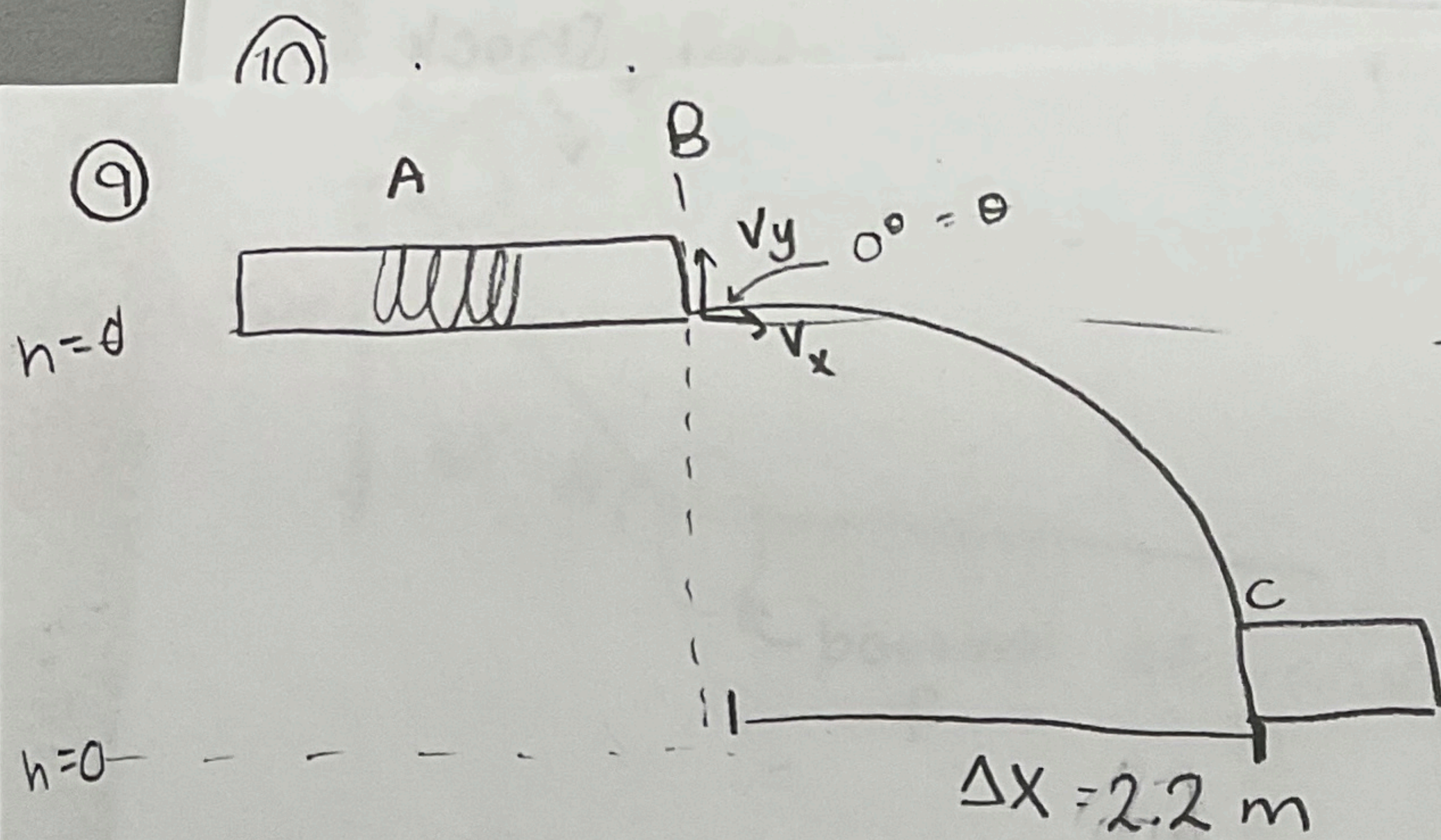


Sloane Shock



for fail:

Conservation of energy $A \rightarrow B$

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

↑ want

$$\frac{1}{2} k (0.01)^2 = \frac{1}{2} m$$

projectile motion $C \rightarrow B$

$$mgh + \frac{1}{2} m v_B^2 = \frac{1}{2} m v_C^2$$

projectile motion $\rightarrow a_x = 0$
 $v_{by} = 0$ ($\sin 0^\circ = 0$)

$$-h = \frac{1}{2} g \Delta t^2$$

$$\Delta x_L = v_B \Delta t$$

$$1.93 = v_B \Delta t$$

I am so sorry I have no clue.