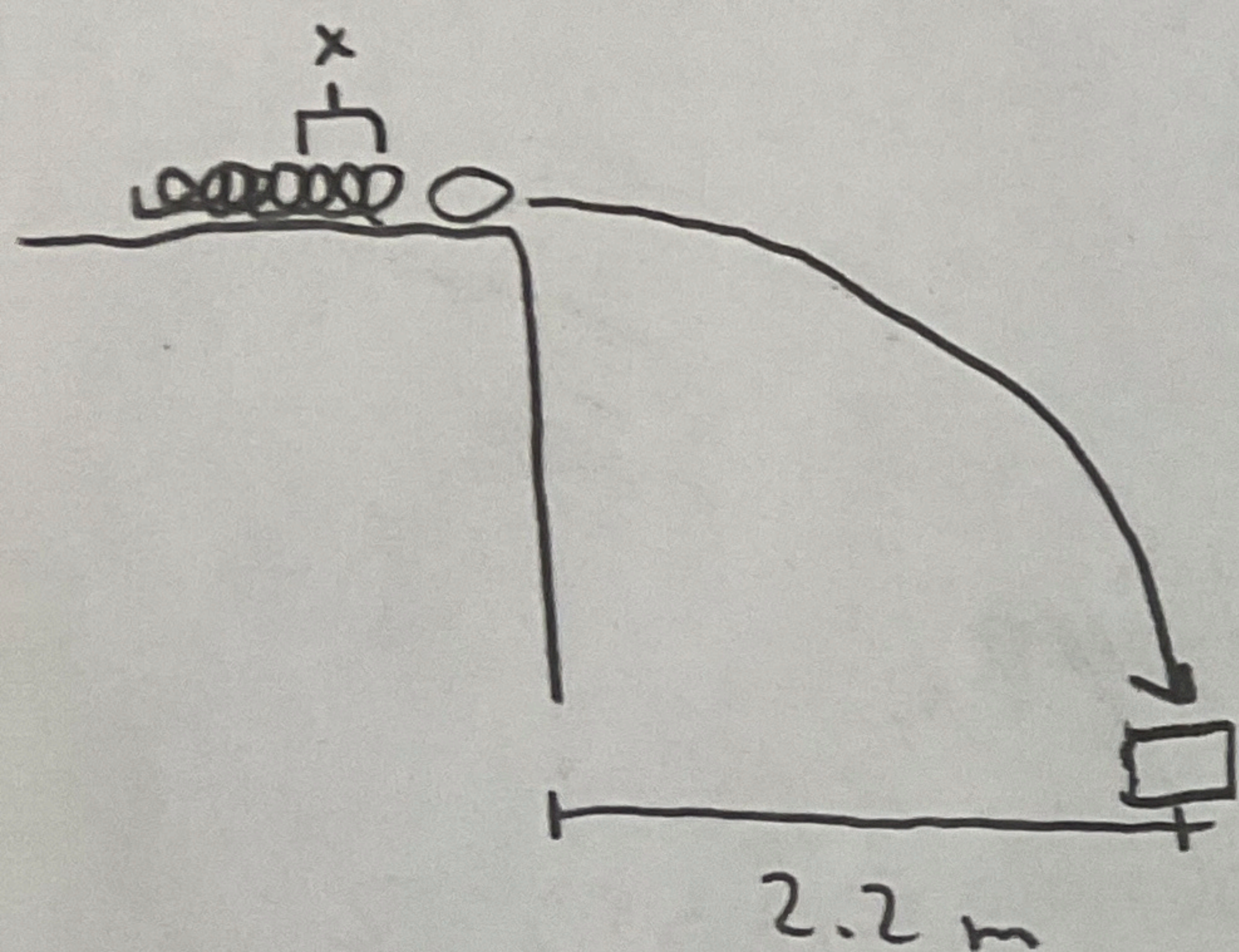


SW #9 - Justin Davis



Spring potential energy

$$PE_i + PE_{\text{spring}} = KE_f + PE_f$$

$$PE_{\text{spring}} = \frac{1}{2} k x^2$$

first att: $\Delta x = 1.93 \text{ m}$

$$v_f^2 - v_i^2 = 2(a)\Delta x$$

$$1.9 \cdot 0 - v_i^2 = 2(-10)(1.93)$$

$$v_i = 6.213 \text{ m/s}$$

$$\frac{1}{2} k (0.011) + \frac{1}{2} m v_i^2 =$$