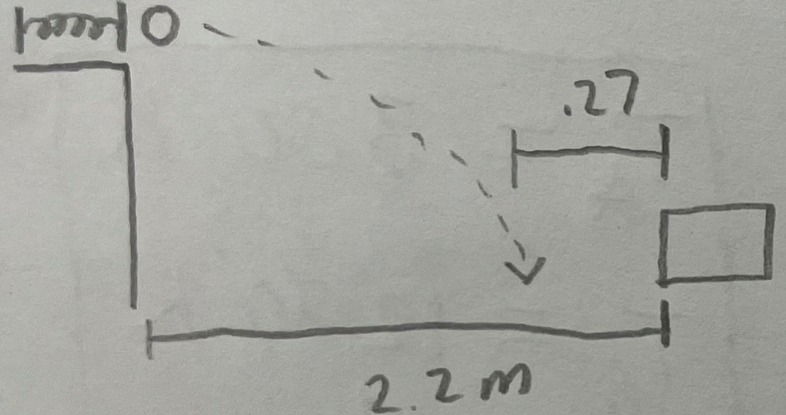
SW

$$U_s = \frac{1}{2}Kx^2 = \frac{1}{2}K(.011)^2 = 6.05\times10^{-5}$$

9)



$$KE = \frac{1}{2}mv^2 = 6.05\times10^{-5}$$

$$v_i = .011 \text{ m/s} \quad v_f = 0$$

$$0^2 = v_i^2 + 2\times(-3.13\times10^{-5})$$

$$0^2 = .011^2 + 2(1.93)a$$

$$a = -3.13\times10^{-5}$$