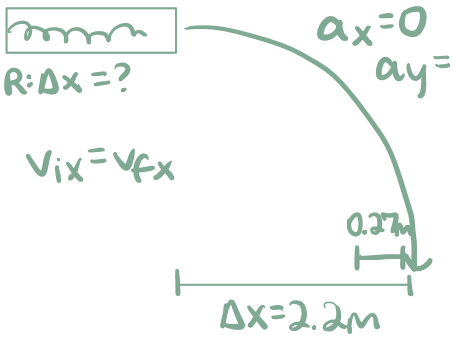
B: $\Delta x = 1.1cm = 0.011m$

Emma Ralph TA: Xihe Han

$F_s = K\Delta x$



$\Delta y = v_{iy}\Delta t + a_y\Delta t^2$

$\Delta y = v_{iy}\Delta t + (9.8)\Delta t^2$

B: $\Delta x = 2.2 - 0.27 = 1.93m$

$\Delta x = v_{ix}\Delta t + a_x\Delta t^2$ ~~$\to 0$~~

$1.93 = v_{ix}\Delta t$

$v_{ix} = 1.93/\Delta t$

$\frac{1}{2}K\Delta x^2 + mgh = \frac{1}{2}mv^2$