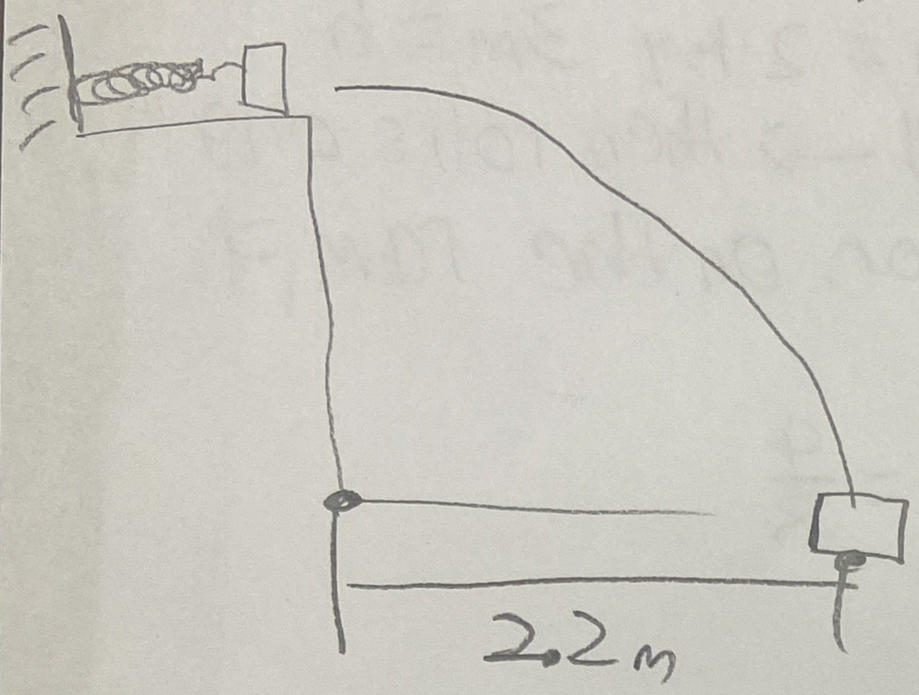
Braedon Salisbury.88



Test of 1.1cm gets us 1.93m distance

$V_f x = 0$

$V_f y = 0$

$V_i = 0$

$a_y = -9.8 \quad -10$

$\Delta x = 2.2m$

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

$\frac{\sqrt{k x^2}}{m} = V_i$

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

$t = \frac{\sqrt{2y}}{g} \cdot x = v t$

$d_1 = \sqrt{\frac{k x^2}{m}} \sqrt{\frac{2y}{g}}$

$d_2 = \sqrt{\frac{k x^2}{m}} = \sqrt{\frac{2y}{g}}$

$\frac{d_1^2 M}{x_1^2} = k$

$\frac{d_1}{x_1^2} =$