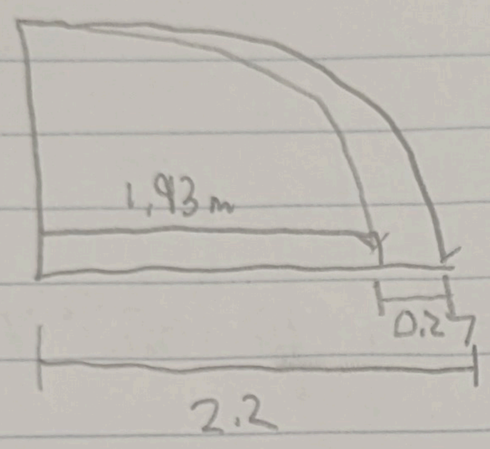
Q4 Bradley Pierce

$x_f = 2.2m$ $x_{si} = 0.011m$ $\Delta x_s = 1.93m$



~~$K = 175.45$~~

$\frac{0.011}{1.93} = \frac{0}{2.2m}$

$\frac{1}{2}K(x)^2 = F x d$

$\frac{1}{2}(175.45)(x)^2 = F x d$

$mgh + F x m = \frac{1}{2} m V^2 + mgh$

SD_1 0

$(10 x h) + \frac{1}{2}(175.45)(x)^2 = \frac{1}{2} V^2$

0.012524m