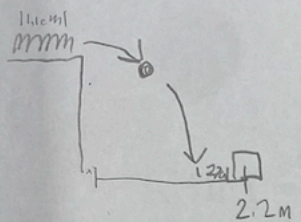
Delaney Easterday

Q9



find d_2

$L = 2.2m$

$d_1 = .011m$

$x = .27m$

$t = \sqrt{\frac{2x}{g}}$

$2.20 - .27 = 1.93m$

$g = 10 m/s^2$

$V = d\left(\frac{K}{m}\right)^{\frac{1}{2}}$

$R = V \cdot t$

$R = d \cdot \sqrt{\frac{K}{m} \cdot \frac{2x}{g}}$

$R_1 = L - a \quad R_2 = L$

$d_2 = .011m \cdot \frac{2.2}{1.93}$

$d_2 = .011m \cdot 1.139896$

$d_2 = .0125m$

$d_2 \cdot \frac{\frac{L-V}{L}}{\frac{L-V}{L}} = \frac{d}{d_2} \cdot d_2$

$d_2 = d_1 \cdot \frac{L}{L-V}$

She should compress it by .0125 meters