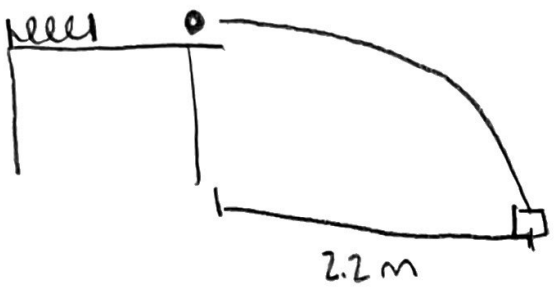
Alex Parnell

Show Work

1.



Knowns:
$\Delta x = 2.2$
$a_y = -10\ m/s^2$
$a_x = 0\ m/s^2$

$\Delta y = v_{iy}t + \frac{1}{2}a_y t^2$

Bobby's knowns:
$\Delta x = 2.2\ m - .27\ m = 1.93\ m$
x for spring = .011 m
$a_y = -10\ m/s^2$ $a_x = 0$

$\Delta x = v_{ix}t + \frac{1}{2}a_x t^2$

$1.93 = v_{ix}t + 0$

$\frac{1}{2}kx^2 = \frac{1}{2}mv_{ix}^2$

$k(.011)^2 = mv_{ix}^2$

$1.21 \times 10^{-4} k =$

$x = \frac{(v_x + v_{ox})t}{2}$

$x = \frac{2v_{ox} \cdot t}{2}$

$1.93 = v_{ox}t$