

$$m = 1 \text{ kg}$$

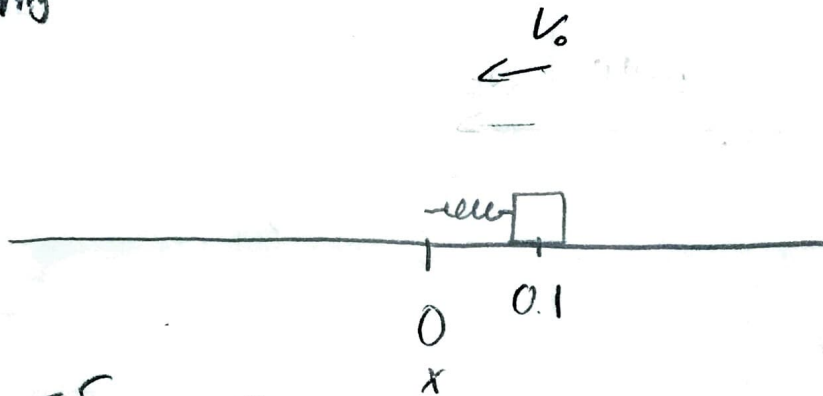
$$V_0 = -0.4 \text{ m/s}$$

$$x_0 = 0.1 \text{ m}$$

$$k = 100$$

$$c = 0.2$$

spring



x = Position

\dot{x} = Velocity

\ddot{x} = Acceleration

$$\sum F_x = 0$$

$$m\ddot{x} = -kx - c\dot{x}$$

$$\ddot{x} = -\frac{k}{m}x - \frac{c}{m}\dot{x}$$

