

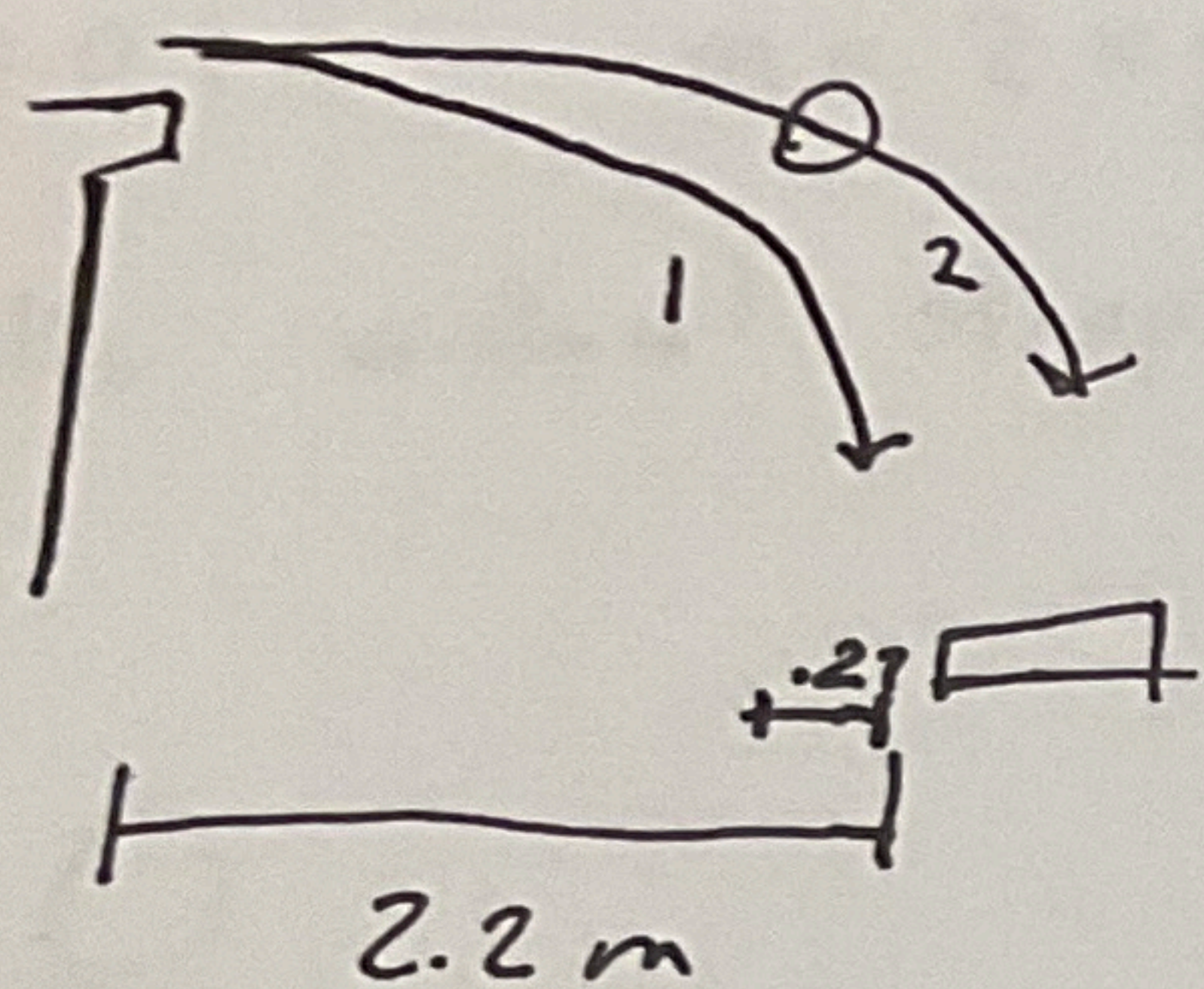
SW 1

Charan Nandur:

S

R

f



$$\Delta x = 2.2 \text{ m}$$

$$\Delta x_{\text{spring}} = 1.1 \text{ cm} = 0.011 \text{ m}$$

Short .27m

no friction

$$g = 10$$

$$U_s = \frac{1}{2} k x^2 \quad 2.2$$

$$\Delta x_1 = 2.2 - .27 = 1.93$$

$$\left(\frac{2.2}{1.93} \right) 1.1 = 1.26 \text{ cm}$$

$$U_s = \frac{1}{2} k (1.93)^2$$

$$\frac{1}{2} k (3.73)$$

$$\Delta x =$$

~~USE K~~

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

$$F_y = mg$$

$$F_x + F_s = \frac{1}{2} k (1.93)^2 \quad -k \Delta x$$

$$k = \frac{0.011}{1.93} = 0.0057$$

$$\frac{1}{2} \cdot 0.0057 \cdot (1.93)^2$$

$$F_x = 0.013794 \quad 0.13794 \times 10 = 1.3794$$

$$0.13794 = mg$$

$$= 4m(10) \quad 0.013794 \text{ kg}$$

Rhonda should compress the spring

1.26 cm