

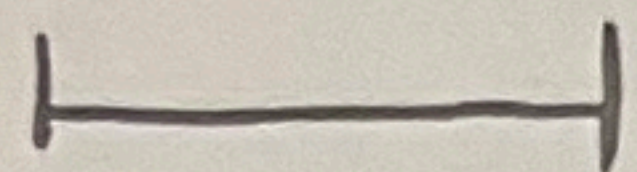
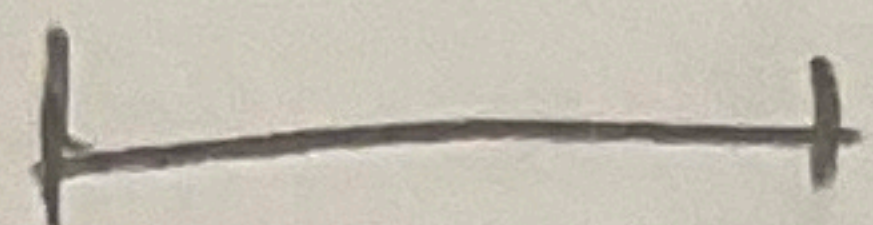
⑨ Spring

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

$$U = \frac{1}{2} k x^2$$

$$\Delta 1.1 \text{ cm}$$

$$= .011 \text{ m}$$



$$x_i = .27 \text{ m}$$

$$U = \frac{1}{2} k x^2$$

$$\frac{1}{2} k (.011)^2$$

$$\Delta x = .12 \text{ m}$$