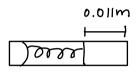
Sw#1 TA: Xihe Han

$$1.1cm = 0.011m$$



How far should spring be compressed?

Spring force:  $F = -K \times F = ma$ 

$$\times (+) = A\cos(\omega + + \phi)$$

$$F = (1 \text{ kg}) (10 \text{ m/s}^2)$$

$$-K = \frac{F}{x}$$
  $w_0 = \sqrt{\frac{K}{m}}$ 

$$-K = \frac{10 \text{ N}}{0.011 \text{ m}}$$

$$k = -909.091 \text{ N/m}$$

$$2.2m + 0.27m = 2.47m$$
 to box's center