

Michael Anderson

9. $F = -kx$ $\omega_0 = \sqrt{\frac{k}{m}}$ $T = \frac{2\pi}{\omega}$

$$F = -(27.0)(2.20)$$

$$= -59.4$$

$$\sqrt{\frac{(10)(1.1)(27.0)}{(59.4)}} = \sqrt{5}$$

$$= 2.23 \text{ cm}$$