

1. A 600 g mass is hung from a vertical spring. It oscillates up and down with a period of 0.500 s. The mass is pushed up from its equilibrium position ($y = 0$) by 10.0 cm and released.
- Write an equation for the vertical position of the mass as a function of time, t , after the mass was released.
 - What is the maximum speed of the mass?
 - What is the spring constant, k , of the spring?
 - What is the maximum net force exerted on the mass?
 - If the mass were given an initial downward speed of 1.00 m/s at $t = 0$, instead of being released from rest, what would be the new answers for parts (b) and (c).



⑤ (a) $\omega = \frac{2\pi}{T} = \frac{2\pi}{0.5 \text{ s}} = 4\pi \text{ s}^{-1} = 12.57 \text{ Hz}$

$$y(t) = y_m \cos(\omega t + \phi)$$

at $t = 0$ $y = y_m \Rightarrow \phi = 0$; $y_m = 0.1 \text{ m}$

$$y = (0.1 \text{ m}) \cos(4\pi t)$$

⑤ (b) $v = dy/dt = -y_m \omega \sin(\omega t)$

$$v_m = y_m \omega = (0.1 \text{ m})(4\pi \text{ s}^{-1}) = 1.26 \text{ m/s}$$

⑤ (c) $k = m \omega^2 = (0.6 \text{ kg})(4\pi \text{ s}^{-1})^2 = 94.7 \text{ N/m}$

⑤ (d) $F_m = k y_m = (94.7 \text{ N/m})(0.1 \text{ m}) = 9.47 \text{ N}$

or $F_m = m a_m = m(\omega^2 y_m)$

⑤ (e) Now $E = \frac{1}{2} k x_0^2 + \frac{1}{2} m v_0^2$

② — k does not change depends only on spring properties

$$E = \frac{1}{2} (94.7 \text{ N/m})(0.1 \text{ m})^2 + \frac{1}{2} (0.6 \text{ kg})(1 \text{ m/s})^2 = 0.774 \text{ J}$$

④ also $E = \frac{1}{2} m v_m^2$

$$v_m = \sqrt{2E/m} = \sqrt{\frac{2(0.774 \text{ J})}{0.6 \text{ kg}}} = 1.61 \text{ m/s}$$

Mechanics 2 Exam Solutions

A Gutmann



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