

PROBLEM 1. A 200-g mass vibrates sinusoidally without friction at the end of a vertical spring having the constant $k = 9.0 \text{ N/m}$. The mass is displaced 3.0 cm from equilibrium and released. Find (a) its maximum speed and (b) its speed when it is 2.0 cm from equilibrium. (c) What is its acceleration in each of these cases?

Given:

$$\begin{aligned} k &= 9.0 \text{ N/m} \\ x_0 &= 0.030 \text{ m} \\ x_1 &= 0.020 \text{ m} \\ m &= 0.200 \text{ kg} \end{aligned}$$

Solution:

$$\text{(a)} \quad v = x_0 \sqrt{\frac{k}{m}}$$

$$v = (0.030) \sqrt{\frac{9.0}{0.200}} = \boxed{0.50 \text{ m/s}}$$

$$\text{(b)} \quad v = \sqrt{\frac{9.0}{0.200} [(0.030)^2 - (0.020)^2]}$$

$$v = \boxed{0.24 \text{ m/s}}$$

(c) $x = 0$

$$a = \frac{k}{m} x = (9.0 \text{ N/m}) (0)$$

$$= \boxed{0}$$

$$x = 0.020 \text{ m}$$

$$a = \frac{k}{m} x = (9.0 \text{ N/m}) (0.020)$$

$$a = \boxed{1.8 \text{ m/s}^2}$$

PROBLEM 2.

Given:

$$\begin{aligned} k &= 300 \text{ N/m} \\ m &= 2.0 \text{ kg} \\ g &= 9.8 \text{ m/s}^2 \end{aligned}$$



$$\text{(a)} \quad h = 2 \frac{mg}{k} = 2 \frac{2.0 (9.8)}{300} = \underline{0.13}$$

$$h = \frac{0.13}{2} = \boxed{0.065 \text{ m}}$$

(b) The mass's center point is a distance of 0.065 m below the point from which it was released.

Solved Problems In Physics

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