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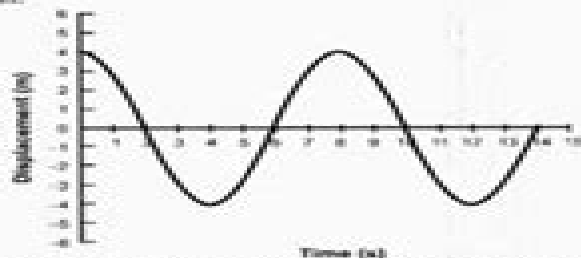
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Simple Harmonic Motion # 1

For question 1-7: The following position-time graph shows the motion of a pendulum in simple harmonic motion.



1) For the first 8 seconds, at which times was the pendulum momentarily at rest?

(A) at $t = 0 \text{ s}, 4 \text{ s}, 8 \text{ s}$ (C) at $t = 1 \text{ s}, 3 \text{ s}, 5 \text{ s}, 7 \text{ s}$ (B) at $t = 2 \text{ s}, 6 \text{ s}$

(D) Never

Justify: At these times, the pendulum is at the highest point before returning back down.

2) For the first 8 seconds, at which times was the pendulum moving the fastest?

(A) at $t = 0 \text{ s}, 4 \text{ s}, 8 \text{ s}$ (C) at $t = 1 \text{ s}, 3 \text{ s}, 5 \text{ s}, 7 \text{ s}$ (B) at $t = 2 \text{ s}, 6 \text{ s}$

(D) Never

Justify: At these times, the pendulum has only kinetic energy.

3) For the first 8 seconds, at which times was the pendulum having the greatest acceleration?

(A) at $t = 0 \text{ s}, 4 \text{ s}, 8 \text{ s}$ (C) at $t = 1 \text{ s}, 3 \text{ s}, 5 \text{ s}, 7 \text{ s}$ (B) at $t = 2 \text{ s}, 6 \text{ s}$

(D) Never

Justify: This is where the bob is at its highest point and its weight is having a greater impact because of its angle.

4) For the first 8 seconds, at which times was the pendulum having the least acceleration?

(A) at $t = 0 \text{ s}, 4 \text{ s}, 8 \text{ s}$ (C) at $t = 1 \text{ s}, 3 \text{ s}, 5 \text{ s}, 7 \text{ s}$ (B) at $t = 2 \text{ s}, 6 \text{ s}$

(D) Never

Justify: Here, the tension in the string and its weight are balanced and no acceleration occurs.

5) What is the period of oscillation for the pendulum?

 $T = 8 \text{ s}$

6) Find the length of the pendulum. (hint: it is long)

$$T = 2\pi\sqrt{\frac{L}{g}} \rightarrow \left(\frac{T}{2\pi}\right)^2 = \frac{L}{g} \rightarrow L = (10\pi/\text{s}) \left(\frac{8\text{s}}{2\pi}\right)^2$$

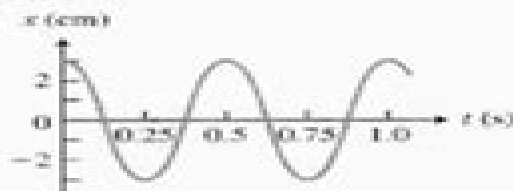
$$\frac{T}{2\pi} = \sqrt{\frac{L}{g}} \quad L = g\left(\frac{T}{2\pi}\right)^2 \quad L = 16.2\text{m}$$

7) If this graph were instead the description of an oscillating spring-mass system where its spring constant is 20 N/m , what would be its mass?

$$T = 2\pi\sqrt{\frac{M}{K}} \rightarrow \left(\frac{T}{2\pi}\right)^2 = \frac{M}{K} \rightarrow M = (20\pi/\text{s}) \left(\frac{8\text{s}}{2\pi}\right)^2$$

$$\frac{T}{2\pi} = \sqrt{\frac{M}{K}} \quad M = K\left(\frac{T}{2\pi}\right)^2 \quad M = 32.4\text{kg}$$

For questions 8 and 12: The following position-time graph shows simple harmonic motion for an oscillating spring-mass system.



8) List all the times at which the mass was momentarily at rest.

 $t = 0 \text{ s}, 0.25 \text{ s}, 0.5 \text{ s}, 0.75 \text{ s}, 1.0 \text{ s}$

9) How much was the spring stretched?

 $x = 3 \text{ cm}$ or 0.03 m

10) How much was the spring compressed?

 $x = 3 \text{ cm}$ or 0.03 m

11) What is the period of oscillation?

 $T = 0.5 \text{ s}$

12) If this was a 2-kg mass, find the spring constant.

$$T = 2\pi\sqrt{\frac{m}{K}} \rightarrow K = \frac{m}{\left(\frac{T}{2\pi}\right)^2} = \frac{2\text{kg}}{\left(\frac{0.5\text{s}}{2\pi}\right)^2}$$

$$\frac{T}{2\pi} = \sqrt{\frac{m}{K}} \quad \left(\frac{T}{2\pi}\right)^2 = \frac{m}{K} \quad K = 316 \text{ N/m}$$

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