

Concept Questions with Answers

8.01
W13D1

Concept Q.: Simple Harmonic Motion

Which of the following functions, $x(t)$ has a second derivative which is proportional to the negative of the function?

$$\frac{d^2x}{dt^2} = -x?$$

1. $x(t) = \frac{1}{2}at^2$
2. $x(t) = Ae^{t^2}$
3. $x(t) = Ae^{t^2-1}$
4. $x(t) = A\cos\left(\frac{2\pi}{T}t\right)$

Simple Harmonic Motion

8.01
Week 12D1
Today's Reading Assignment
MIT 8.01 Course Notes
[Chapter 23 Simple Harmonic Motion](#)
Sections 23.1-23.4

Concept Q. Ans.: SHM

Answer 4. By direct calculation, when

$$x(t) = A\cos\left(\frac{2\pi}{T}t\right)$$

$$\frac{dx(t)}{dt} = -\left(\frac{2\pi}{T}\right)A\sin\left(\frac{2\pi}{T}t\right)$$

$$\frac{d^2x(t)}{dt^2} = -\left(\frac{2\pi}{T}\right)^2 A\cos\left(\frac{2\pi}{T}t\right) = -\left(\frac{2\pi}{T}\right)^2 x(t)$$

Concept Question: SHM Velocity

A block of mass m is attached to a spring with spring constant k is free to slide along a horizontal frictionless surface. At $t = 0$ the block-spring system is stretched an amount $x_0 > 0$ from the equilibrium position and is released from rest. What is the x -component of the velocity of the block when it first comes back to the equilibrium?

- | | |
|------------------------------------|-----------------------------------|
| 1. $v_x = -x_0 \frac{k}{T}$ | 2. $v_x = x_0 \frac{k}{T}$ |
| 3. $v_x = -\sqrt{\frac{k}{m}} x_0$ | 4. $v_x = \sqrt{\frac{k}{m}} x_0$ |

CQ Answer: SHM Velocity

Answer 3. The particle starts with potential energy. When it first returns to equilibrium it now has only kinetic energy. Since the energy of the block-spring system is constant:

$$(1/2)kx_0^2 = (1/2)mv_x^2$$

Take positive root because object is moving in negative x -direction when it first comes back to equilibrium, and $x_0 > 0$, we require that $v_{x,eq} < 0$, therefore

$$v_x = -\sqrt{\frac{k}{m}} x_0$$

Concept Review Answers Simple Harmonic Motion

H. D. Ram, A. K. Chauhan



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