

Quiz & Worksheet - Simple Harmonic Motion Problems

1. When an object undergoes simple harmonic motion its acceleration is proportional to its displacement, and _____.

- acts in the opposite direction
- acts in the same direction
- acts in a perpendicular direction
- acts in the azimuthal direction.

2. A particle oscillates in simple harmonic motion with an amplitude of 2 m, an angular frequency of 4π , and no phase shift. What is the specific formula for its velocity with respect to time.

- $v = 2\cos(4\pi t)$
- $v = -8\pi\sin(4\pi t)$
- $v = -32\pi^2\cos(4\pi t)$
- $v = -16\pi^2x$

3. A particle oscillates on a spring with an amplitude of 1 m, an angular frequency of $\pi/4$, and a phase of $\pi/2$. Find this particle's acceleration at a time (t) of 2 s. (Hint: You need to start by finding its formula for acceleration)

- $a = 0.61 \text{ m/s}^2$
- $a = -2.37 \text{ m/s}^2$
- $a = -0.88 \text{ m/s}^2$
- $a = 5.31 \text{ m/s}^2$

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Explore Learning Simple Harmonic Motion Answers

Scott C. Dulebohn



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