

Simple Harmonic Motion Worksheet

- 1) A weight in a spring mass system is oscillating in simple harmonic motion. The amplitude is doubled. How are the period and phase shift affected?

They're not.

- 2) A weight in a spring-mass system exhibits harmonic motion. The system is in equilibrium when the weight is motionless. If the weight is pulled down or pushed up and released, it would tend to oscillate freely if there were no friction. In a certain spring-mass system, the weight is 5 feet from a 10-foot ceiling when it is at rest. The motion of the weight can be described by the equation.

$y = 3\sin\left(\pi t - \frac{\pi}{2}\right)$, where y is the distance from the equilibrium point, and t is measured in seconds.

- a) Was the weight pulled down or pushed up before it was released?
Pulled down.
- b) How far was the weight from the ceiling when it was released?
8 feet.
- c) How close will the weight come to the ceiling?
2 feet.
- d) When does the weight first pass its equilibrium point?
0.5 second.
- e) What is the greatest distance that the weight will be from the ceiling?
8 feet.
- f) Find the period of the motion.
2 seconds.
- g) Find the amplitude of the motion.
3 feet.
- h) What is the frequency of the motion?
1/2 cycle per second.
- i) How far from the ceiling is the weight after 2.5 seconds?
At equilibrium, 5 feet.

Holt Physics Simple Harmonic Motion Answers

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Holt Physics Raymond A. Serway,2002 **Holt Physics** ,2000-12 **Physics** Holt Rinehart & Winston,2000-12
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