CourseWare

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Quiz 6

You scored 70 out of 100

Question 1

Your answer is CORRECT.

An object is in simple harmonic motion. Find an equation for the motion given that the period is $2\pi/3$ and at time $t = 0$, $y = 1$, and $y' = 3$. What is the equation of motion?

a) $y(t) = \sqrt{2}\sin\left(\frac{1}{3}t + \frac{1}{4}\pi\right)$

b) $y(t) = \sqrt{2}\sin\left(3t + \frac{1}{4}\pi\right)$

c) $y(t) = \sin\left(3t + \frac{1}{2}\pi\right)$

d) $y(t) = \sin\left(3t + \frac{2}{3}\pi\right)$

e) $y(t) = \sqrt{2}\sin\left(\frac{2}{3}t + \frac{1}{6}\pi\right)$

f) None of the above.

Question 2

Your answer is CORRECT.

An object is in simple harmonic motion. Find an equation for the motion given that the frequency is $5/\pi$ and at time $t = 0$, $y = 0$, and $y' = -10$. What is the equation of motion?

a) $y(t) = \sin(10t + \pi)$

b) $y(t) = \sin\left(\frac{1}{10}t + \frac{1}{4}\pi\right)$

Putkey, John

CLOCK

Start Time	7/10/2017 7:11:00 PM
Time Taken	00:25:32

NAVIGATION

[5] Q 1	[5] Q 2	[5] Q 3	[5] Q 4
[5] Q 5	[5] Q 6	[5] Q 7	[5] Q 8
[5] Q 9	[5] Q 10	[5] Q 11	[5] Q 12
[5] Q 13	[5] Q 14	[5] Q 15	[5] Q 16
[5] Q 17	[5] Q 18	[5] Q 19	[5] Q 20

TEST INFORMATION

Your Score is:	70
Out of:	100
Time Allowed:	150 min
Total Problems:	20

COLORING LEGEND

Not Answered	Incorrect	Correct

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