Homework 3, 74.00/100.00 (74.00%)

October 22, 2019

Problem 2 score: 10/10

ok

Problem 9 score: 0/10[1]

$$y' = \frac{2 - \tan(x) - x(-\sec^2 x)}{(2 - \tan(x))^2}.$$

Problem 16 score: 8/10[2]

where did x come from??

Problem 22 score: 10/10

ok

Problem 35 score: 8/10[3]

(a) ok

(b) NOT ok (if equilibrium position is at $x = 0$, $x(2\pi/3) > 0$ and $v(2\pi/3) > 0$, why does it move towards the equilibrium?)

[1] similar problems: 11,12

[2] similar problems: 14,15

[3] similar problems: repeat (a) and (b) for $x(t) = 4\sin(2t), t = 2\pi/3$ and $x(t) = 5\cos(3t), t = 5\pi/12$

Problem 37 score: 8/10[4]

Did you write

$$x(\theta) = L\cos\theta?$$

If no, I will add two points.

Problem 39 score: 0/10[5]

I don't see the answer

Problem 47 score: 10/10

ok

Problem 51 score: 10/10

ok

Problem 57 score: 10/10

ok

[4]similar problems: 38
[5]similar problems: 40,41