

Quiz #1 Due 9/16/09, Wednesday, 9:00 p.m. EDT (10 points)

Please find the following and put it in the drop box by September 16, Wednesday, 9:00 p.m. EDT

1. What is the first derivative of $x=25 \sin(2t)$ with respect to time?
2. What does the first derivative represent?
3. What is the frequency of the vibration and be sure to give the units?
4. What is the second derivative of $x = 25 \sin(2t)$ with respect to time?
5. What is the maximum amplitude of the vibration?