

Medicales Ferosocies Engineering

Homework 4:

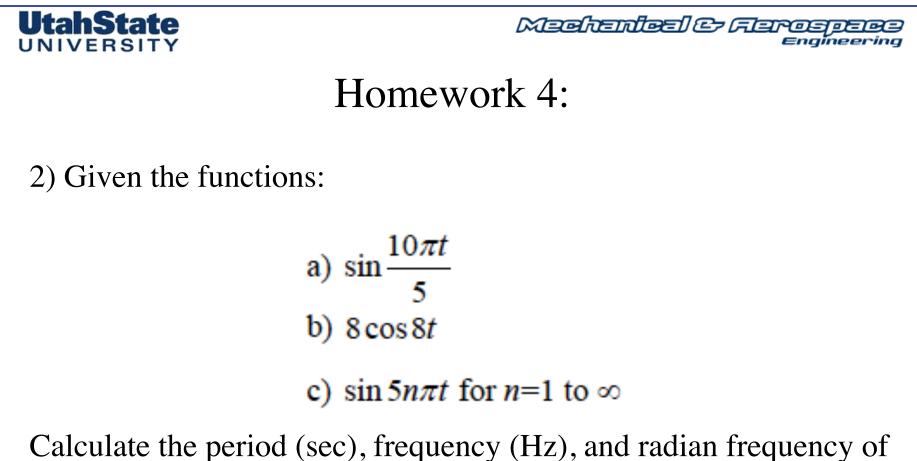
1) Given the Function:

 $y(t) = 25 + 10\sin 6\pi t$

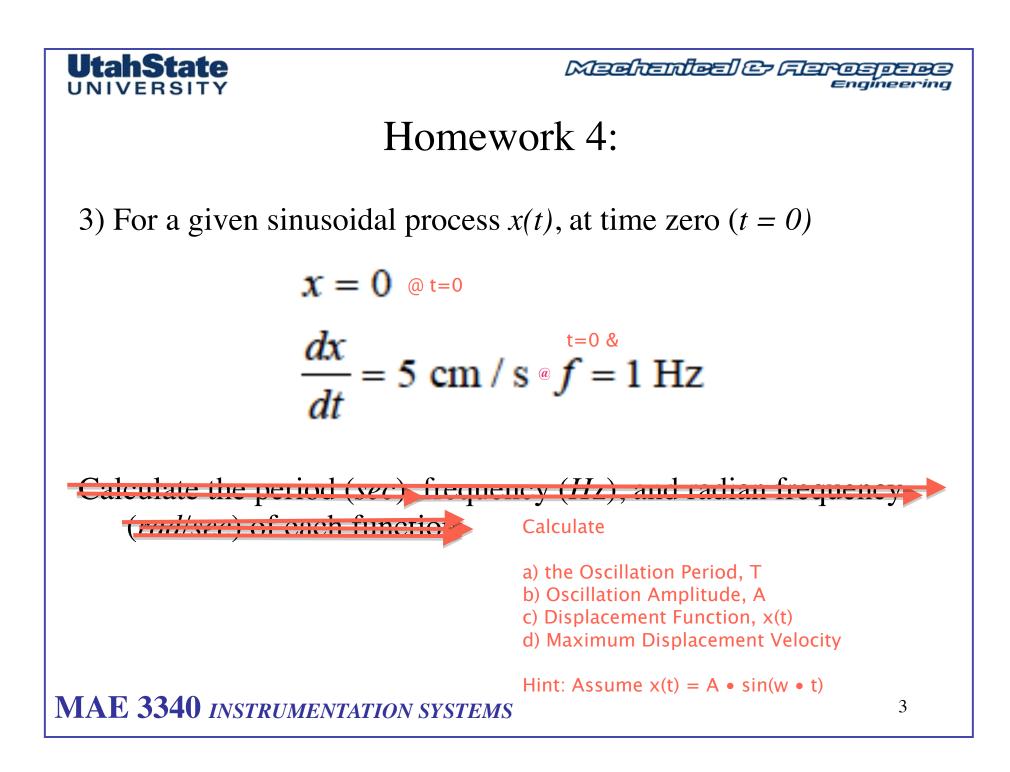
Find the mean and Root Mean Square Values over the time periods *From* t_1 *to* t_2 , as listed below

a) 0 to 0.1 s
b) 0.4 to 0.5 s
c) 0 to 1/3 s
d) 0 to 20 s

MAE 3340 INSTRUMENTATION SYSTEMS



each function





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Homework 4:

4) A given process has an input EMF level described by

 $E(t) = 2\sin 4\pi t \text{ mV}$

Write a Labview VI to plot the data generated by the function above, but sampled at times increments of {1/8, 1/5, 1/3, and 1/21} seconds

Plot 4 seconds of data for each plot .. Discuss your results.