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University of Pennsylvania PEN.1

Pre Lab for Galileo's Pendulum

1) Consider a pendulum for which the displacement is $x(t) = 3\sin(10t)$

Draw the displacement on this graph.

2) What is the frequency?

3) What is displacement $x(0)$ at $t=0$?

4) What is displacement $x(0)$ if $\phi = \pi / 4$?

5) Why can the same displacement also be expressed as a cosine instead of a sine function?