

PURDUE UNIVERSITY NORTH CENTRAL

Electrical & Computer Engineering Technology Department

ECET 157 (Prof. Smith)

Spring, 2009

MATH REVIEW - - SINE WAVES.

Part A - We'll Go Over this Together.

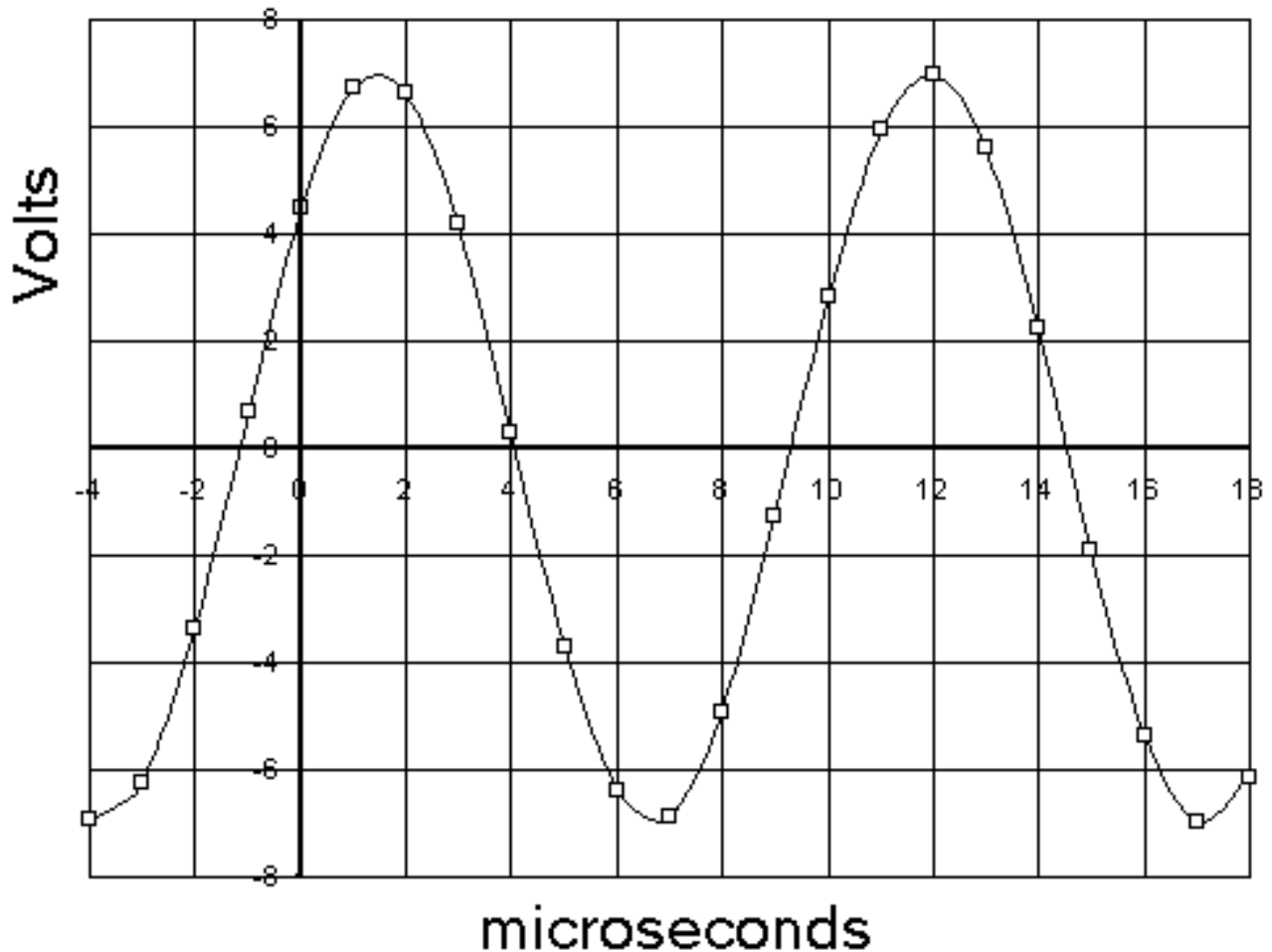
A. For the signal below, determine the following. $V_{dc} =$ _____ $V_{ampl} =$ _____

$V_{rms} =$ _____ $V_{pk} =$ _____ $V_{p-p} =$ _____ $V_{ave} =$ _____

$f =$ _____ Hz period = _____ phase shift = _____° $\omega =$ _____ rad/s

Write the time domain equation for the signal. $v(t) =$ _____

Write the phasor notation for the signal. $\bar{V} =$ _____ \angle _____°



Part B - Work in Groups.

A. For the signal below, determine the following. $V_{dc} = \underline{\hspace{2cm}}$ $V_{ampl} = \underline{\hspace{2cm}}$
offset

$V_{rms} = \underline{\hspace{2cm}}$ $V_{pk} = \underline{\hspace{2cm}}$ $V_{p-p} = \underline{\hspace{2cm}}$ $V_{ave} = \underline{\hspace{2cm}}$

$f = \underline{\hspace{2cm}}$ Hz period = $\underline{\hspace{2cm}}$ phase shift = $\underline{\hspace{2cm}}$ ° $\omega = \underline{\hspace{2cm}}$ rad/s

Write the time domain equation for the signal. $v(t) = \underline{\hspace{4cm}}$

Write the phasor notation for the signal. $\bar{V} = \underline{\hspace{2cm}} \angle \underline{\hspace{2cm}}$ °

