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.

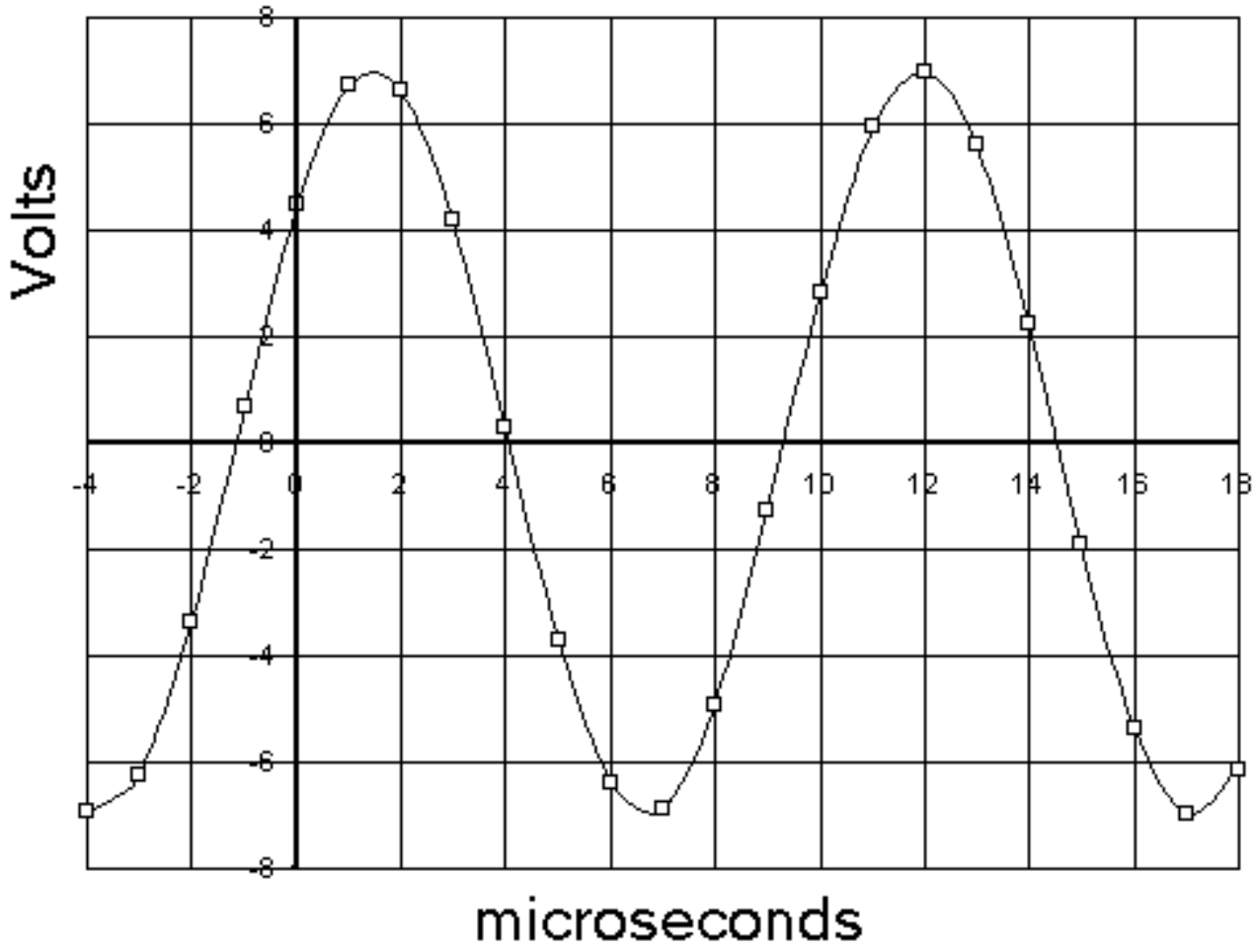
A. For the signal below, determine the following. $V_{dc_{offset}}$ = _____ V_{ampl} = _____

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

f = _____ Hz period = _____ phase shift = _____° ω = _____ rad/s

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

Write the phasor notation for the signal. $\overline{V}$ = _____ ∠ _____°



Part B - Work in Groups.

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

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

f = _____ Hz period = _____ phase shift = _____° ω = _____ rad/s

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

Write the phasor notation for the signal. $\overline{V}$ = _____ ∠ _____°