

PURDUE UNIVERSITY NORTH CENTRAL

Electrical & Computer Engineering Technology Department

ECET 157 (Prof. Smith)

Review for Final Exam - Part III

Spring, 2009

NAME: _____

1. For $v(t) = 8V \sin(628t - 30^\circ)$, determine:
- $V_{dc} =$ _____ $V_{ampl} =$ _____
offset
- $V_{rms} =$ _____ $V_{pk} =$ _____ $V_{p-p} =$ _____ $V_{ave} =$ _____
- $f =$ _____ Hz period = _____ phase shift = _____ $^\circ$ $\omega =$ _____ rad/s

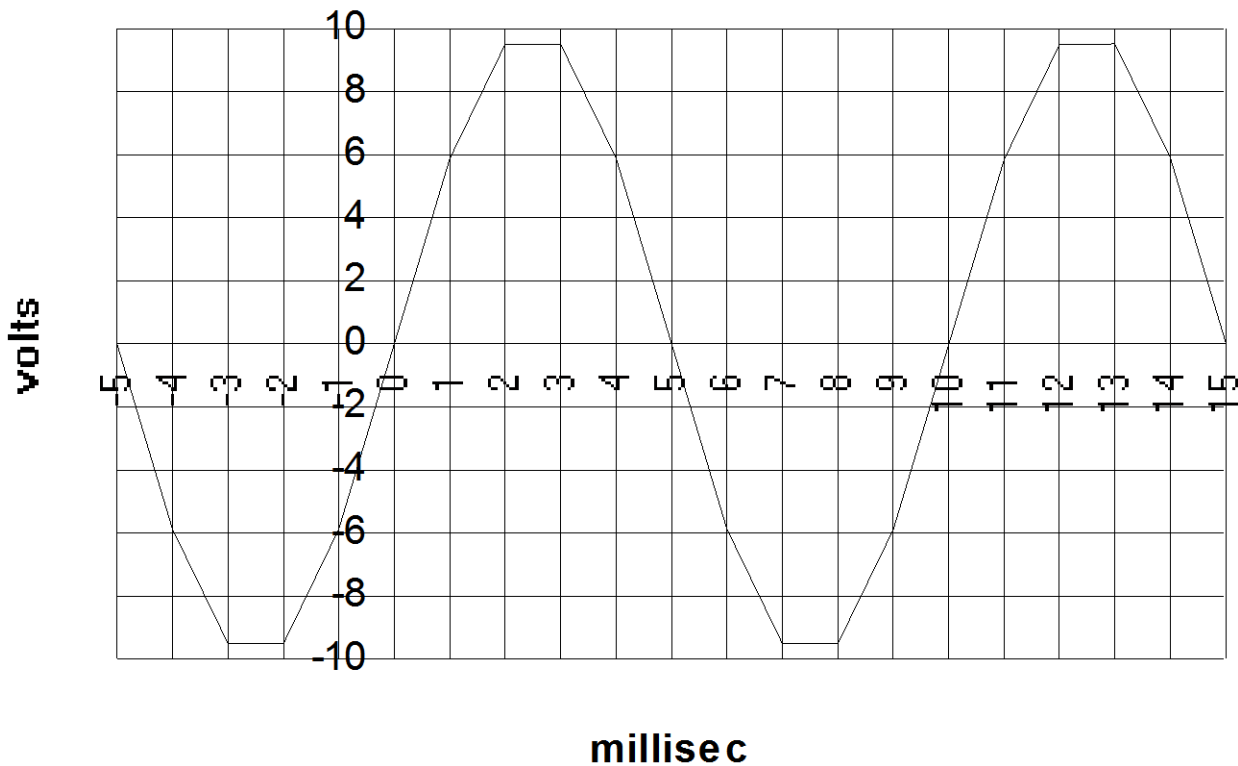
Write the time domain equation for the signal. $v(t) =$ _____

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

2. For the graph shown, find:
- $V_{dc} =$ _____ $V_{ampl} =$ _____
offset
- $V_{rms} =$ _____ $V_{pk} =$ _____ $V_{p-p} =$ _____ $V_{ave} =$ _____
- $f =$ _____ Hz period = _____ phase shift = _____ $^\circ$ $\omega =$ _____ rad/s

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

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



3. Draw the wave form for the signal $8V \sin(628t - 30^\circ)$