PROBLEM:

In the following parts, assume that the period of the sinusoidal wave is T=20 sec.

The phase of a sinusoid can be related to time shift: $x(t) = A\cos(2\pi f_0 t + \phi) = A\cos(2\pi f_0 (t - t_1))$

- (a) "When $t_1 = 5$ sec, the value of the phase is $\phi = 3\pi/2$."
- Explain whether this is TRUE or FALSE.
- (b) "When $t_1 = -5$ sec, the value of the phase is $\phi = \pi/4$."

Explain whether this is TRUE or FALSE.

- Explain whether this is TRUE or FALSE.
- (c) "When $t_1 = 16$ sec, the value of the phase is $\phi = -2\pi/5$."