PROBLEM:

The above of

The phase of a sinusoid can be related to time shift:

In the following parts, assume that the period of the sinusoidal wave is
$$T=8$$
 sec.

 $x(t) = A\cos(2\pi f_0 t + \phi) = A\cos(2\pi f_0 (t - t_1))$

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

(a) "When $t_1 = -2$ sec, the value of the phase is $\phi = \pi/2$."

Explain whether this is TRUE or FALSE. (c) "When $t_1 = 7$ sec, the value of the phase is $\phi = \pi/4$."

Explain whether this is TRUE or FALSE.

(1)