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

$$
\begin{equation*}
x(t)=A \cos \left(2 \pi f_{0} t+\phi\right)=A \cos \left(2 \pi f_{\circ}\left(t-t_{1}\right)\right) \tag{1}
\end{equation*}
$$

In the following parts, assume that the frequency of the sinusoidal wave is $f=60 \mathrm{~Hz}$.
(a) "When $t_{1}=-1 / 300 \mathrm{sec}$, the value of the phase is $\phi=\pi / 5$." Explain whether this is TRUE or FALSE.
(b) "When $t_{1}=1 / 300 \mathrm{sec}$, the value of the phase is $\phi=-2 \pi / 5$." Explain whether this is TRUE or FALSE.
(c) "When $t_{1}=1 / 50 \mathrm{sec}$, the value of the phase is $\phi=-2 \pi / 5$." Explain whether this is TRUE or FALSE.

