PROBLEM:

The waveform in the following figure can be expressed as

$$x(t) = A \cos[\omega_0(t - t_m)] = A \cos(\omega_0 t + \phi) = A \cos(2\pi f_0 t + \phi)$$

From the waveform, determine A, ω_0, t_m, and ϕ. Choose the value of ϕ such that $-\pi < \phi \le \pi$.

Sinusoidal Signal: $x(t) = A \cos(\omega t + \phi)$