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: $x(t) = A \cos(\omega t + \phi)$ 20 10 -10 -20 -0.02-0.01 0.01 0.02 0.03 0.04 0.05 0.06 (time in sec)