PROBLEM:

The waveform in the following figure can be expressed as

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

Sinusoidal Signal: $x(t) = A \cos(\omega t + \phi)$ 100 50 -50 -100 10 12

(time in millisec)

From the waveform, determine A, ω_0 , f_0 , t_d , and ϕ . Choose the value of ϕ such that $-\pi < \phi \le \pi$.