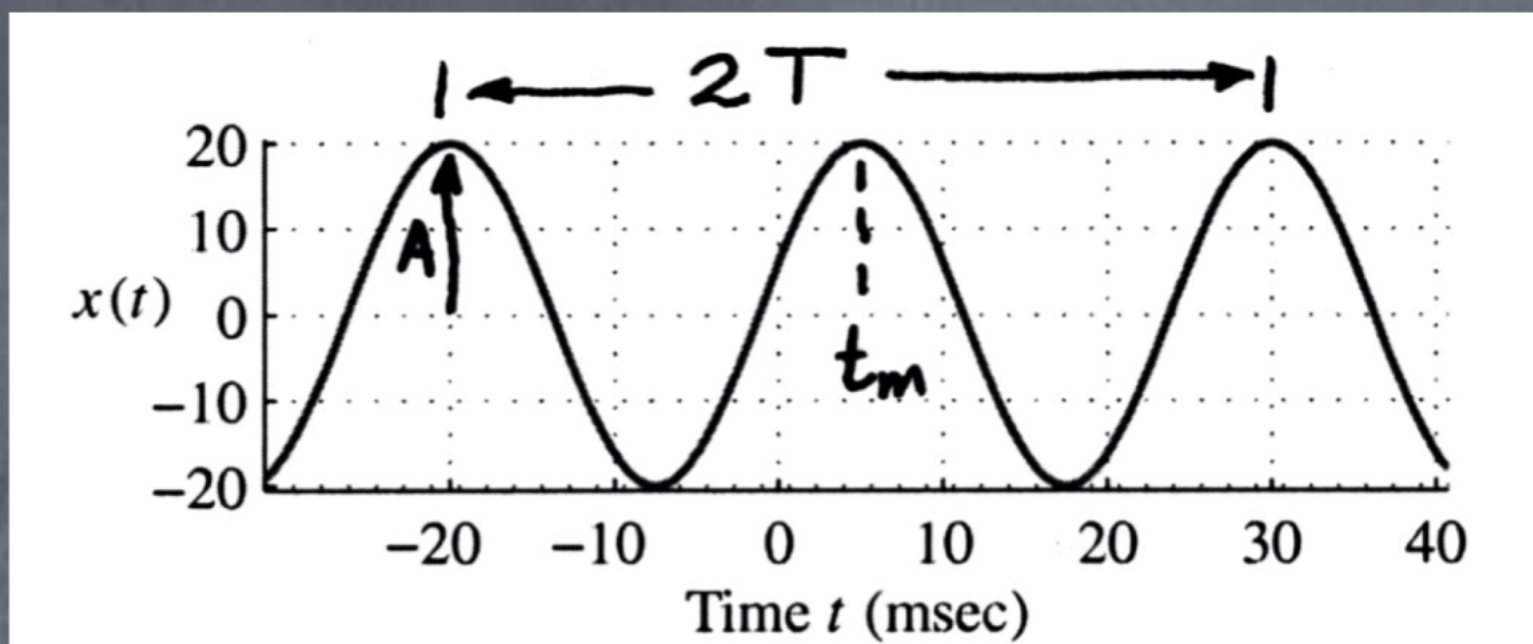




2.2

$$x(t) = A \cos(\omega_0 t + \phi)$$

$$A = 20$$

$$T = 25$$

$$\phi = -2\pi \cdot \frac{t_1}{T} = -2\pi \cdot \frac{5}{25}$$

$$= -\frac{2\pi}{5}$$

$$\omega_0 = \frac{2\pi}{T} = \frac{2\pi}{25 \times 10^{-3}}$$

$$= -0.4\pi$$

$$x(t) = 20 \cdot \cos\left(\frac{2\pi}{25 \cdot 10^{-3}} t - 0.4\pi\right)$$

$$= 20 \cos(80\pi t - 0.4\pi)$$

