

Prob. 10.1(a) Wave propagates along $+x$.

(b)

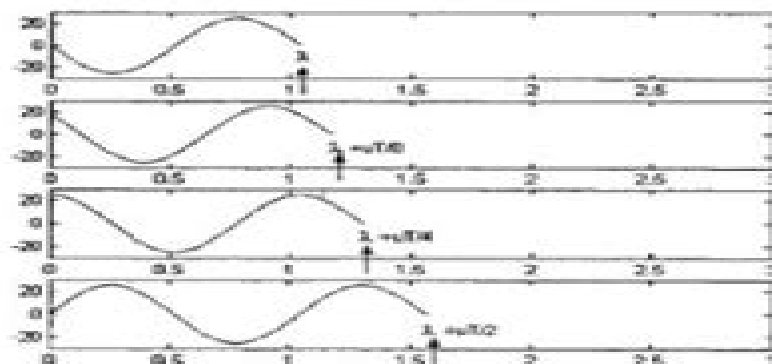
$$T = \frac{2\pi}{\omega} = \frac{2\pi}{2\pi \times 10^6} = \underline{1\mu s}$$

$$\lambda = \frac{2\pi}{\beta} = \frac{2\pi}{6} = \underline{1.047m}$$

$$u = \frac{\omega}{\beta} = \frac{2\pi \times 10^6}{6} = \underline{1.047 \times 10^6 m/s}$$

(c) At $t=0$, $E_x = 25 \sin(-6x) = -25 \sin 6x$ At $t=T/8$, $E_x = 25 \sin(\frac{2\pi}{T} \frac{T}{8} - 6x) = 25 \sin(\frac{\pi}{4} - 6x)$ At $t=T/4$, $E_x = 25 \sin(\frac{2\pi}{T} \frac{T}{4} - 6x) = 25 \sin(-6x + 90^\circ) = 25 \cos 6x$ At $t=T/2$, $E_x = 25 \sin(\frac{2\pi}{T} \frac{T}{2} - 6x) = 25 \sin(-6x + \pi) = -25 \sin 6x$

These are sketched below.



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