

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

(b)

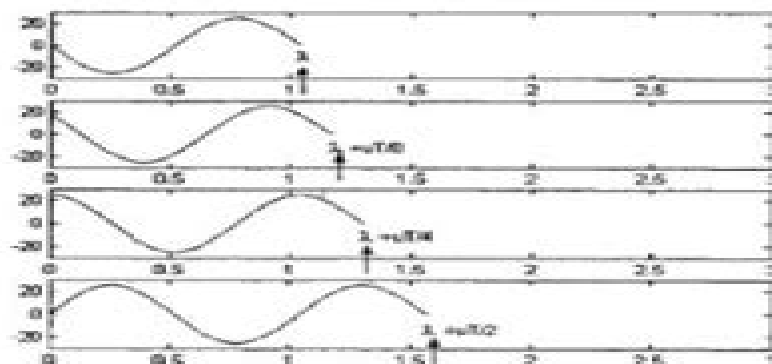
$$T = \frac{2\pi}{\omega} = \frac{2\pi}{2\pi \times 10^6} = 1 \mu s$$

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

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

(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.



# Elements Of Electromagnetics Sadiku Solution Manual 5th

**J Rink**



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