May ind varing divey valor

Bx=0

By=0109 T sin 
$$(2 \times 10^{14} \text{ T S'} (t-\frac{x}{c}))$$

B2=0

By=- $\hat{y}$ 

Val  $x$  giba  $\hat{y}$ 
 $\hat{z}$ 
 $\hat{z}$ 
 $\hat{z}$ 
 $\hat{z}$ 
 $\hat{z}$ 
 $\hat{z}$ 

Snyir:  $\hat{z}$  =  $\hat{z}$ 
 $\hat{z}$ 
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$$E_2 = 0.3 \frac{V}{m} \cdot \sin \left( 2 \times 10^4 \, \pi / s \left( t - \frac{x}{c} \right) \right)$$

$$\frac{2}{2} - n \text{ ami } i2\text{ eleriviral}$$

$$\frac{3^2 E}{2x^2} = \frac{1}{C^2} \frac{3^2 E}{2t^2}$$

$$\frac{\partial^2 E}{\partial x^2} = \frac{1}{C^2} \frac{\partial^2 E}{\partial t^2}$$

$$Ey = E_0 C$$

$$(wt - kx) = c \sin(wt - kx) + c \sin(wt - kx)$$

$$\frac{\partial^2 E}{\partial x^2} = -k^2 E_0 e^{i(\omega t - kx)} \qquad \frac{\partial^2 E}{\partial t^2} = \omega^2 E_0 e^{i(\omega t - kx)}$$
$$-k^2 E_0 e^{i(\omega t - kx)} = \frac{-1}{c^2} \omega^2 E_0 e^{i(\omega t - kx)}$$

$$e^{i(wt - tx)} = \frac{-1}{c^2} w^2 = \frac{w^2}{c^2} \rightarrow \sqrt{k = \frac{w}{c}}$$

doyè snyer zibacyć narscy vale cos ili sin, nelitho,

B=Bosin [Er-w++ ] E = Eo sin [Er-w++ ]

identica dio

(3) intential adjourna medya myichunti Payntingong vellom

$$|E| | |E| |$$

$$30 = \frac{20}{c} = \sqrt{20 = 1076}$$

$$)_{\mathcal{N}}, \vec{X} = \vec{k} = \vec{k} + \vec{k}$$

$$\frac{4}{2} \sqrt{2}, \quad \vec{x} = \vec{y} \cdot \vec{k} - k \cdot \hat{x} \qquad \vec{E} (x, t)$$

$$= \vec{k} \cdot \vec{k} + k \cdot \hat{x} \qquad \vec{k} = \vec{k} \cdot \hat{x}$$

$$\frac{E_0}{\vec{B}}, \vec{S} = ?$$

$$E = k \times E_0 \times t = E_0 \text{ co}$$

$$E_0 \times (\hat{y} + \hat{z})$$

$$\vec{E} = \hat{k} \times \hat{z} = 2\pi \hat{x}$$

$$\vec{B}, \vec{S} = ?$$

$$\vec{E}_0 = \sqrt{E_y^2 + E_z^2}$$

$$\vec{E}_0 = \frac{E_0}{\sqrt{2}} (\hat{y} + \hat{z})$$

$$\frac{1}{+E^2}$$

$$-(\hat{y}+\hat{z})$$

$$E(x,t) = \frac{E_0}{I_2} \left( \hat{g} + \hat{z} \right) \cos \left( \frac{2\pi}{\pi} (x - ch) + 0 \right)$$

$$= \frac{E_0}{I_2} \left( \hat{g} + \hat{z} \right) \cos \left( \frac{2\pi}{\pi} (x - ch) + 0 \right)$$

$$= \frac{E_0}{I_2} \left( \hat{g} + \hat{z} \right) \cos \left( \frac{2\pi}{\pi} (x - ch) + 0 \right)$$

samo x presin

$$B(x,t) = \frac{E_0}{c\sqrt{2}} \left(-\dot{y} + \hat{z}\right) \cos^3\left(\frac{2\pi}{n}(x-ct) + \phi\right)$$

$$\vec{S} = \frac{1}{\mu_0} \vec{E} \times \vec{B}$$

$$\vec{B} = \frac{1}{\mu_0} \vec{E} \times \vec{B}$$

$$\vec{B} = \frac{1}{\mu_0} \vec{E} \times \vec{$$

$$8 (x,t) = \frac{Eo^2}{\mu e} \times eos^2 \left[ \frac{\pi}{\pi} (x-ct) + 0 \right]$$

$$8 (x,t) = \frac{Eo^2}{\mu c} \cdot \hat{x} \left[ 1 + cos \left[ \frac{4\pi}{\pi} (x-ct) + 20 \right] \right]$$