I assume
$$\vec{F} = |F| \hat{a}_{K}$$
 and $\hat{a}_{K} = \hat{a}_{K}^{2}$
 $|K| = w \sqrt{\mu}\hat{s}$

and $\vec{E} = \hat{s}_{0}e^{-x} \hat{b}^{2} (-\hat{j}_{K}^{2} \cdot \vec{E}^{2}) \hat{a}_{K}$
 $\vec{F} = \hat{s}_{0}^{2} + \hat{j}_{0}\hat{q}^{2} + \hat{z}_{0}\hat{s}_{0}^{2}$

So $\vec{E} \cdot \vec{p}^{2} = \hat{z}_{0}|K|$

and $\vec{H} = H_{0}e^{-\hat{j}_{0}^{2} \cdot \vec{E}^{2}} \hat{a}_{0}^{2}$

where $H_{0} = \frac{E_{0}}{4} = f_{0} \cdot \hat{s}_{K}^{2} \Rightarrow \hat{t}_{0} = \gamma (H_{0}) = \int_{\vec{E}}^{H_{0}} H_{0}$
 $\vec{F} \times \vec{E} = |F| \hat{a}_{K}^{2} \times |F| \hat{a}_{0}^{2} = w + h_{0}e^{-\hat{j}_{0}^{2} \cdot \vec{E}^{2}} \hat{a}_{0}^{2}$
 $\vec{F} \times \vec{H} = w \cdot \hat{f}_{0}^{2} = \hat{f}_{0}^{2} \cdot \hat{a}_{0}^{2}$
 $\vec{F} \times \vec{H} = -w \cdot \hat{f}_{0}^{2} = \hat{f}_{0}^{2} \cdot \hat{a}_{0}^{2}$
 $\vec{F} \cdot \vec{H} = |F| \hat{a}_{0}^{2} \cdot |F| \hat{a}_{0}^{2} = w \cdot |F| \hat{a}_{0}^{2} \cdot |F| = 0$
 $\vec{F} \cdot \vec{H} = |F| \hat{a}_{0}^{2} \cdot |F| \hat{a}_{0}^{2} = w \cdot |F| \hat{a}_{0}^{2} \cdot |F| = 0$
 $\vec{F} \cdot \vec{H} = |F| \hat{a}_{0}^{2} \cdot |F| \hat{a}_{0}^{2} = w \cdot |F| \hat{a}_{0}^{2} \cdot |F| = 0$
 $\vec{F} \cdot \vec{H} = |F| \hat{a}_{0}^{2} \cdot |F| \hat{a}_{0}^{2} = w \cdot |F| \hat{a}_{0}^{2} \cdot |F| = 0$
 $\vec{F} \cdot \vec{H} = |F| \hat{a}_{0}^{2} \cdot |F| \hat{a}_{0}^{2} = w \cdot |F| \hat{a}_{0}^{2} \cdot |F| = 0$

2.

(1) We have known that
$$H = 4 \times 10^6 \cos (10^7 \text{nt} - \beta + \frac{7}{4}) \hat{a}_2 A/m$$

and $\beta = W/\mu \hat{\epsilon}$, $W = 10^7 \pi \frac{\text{rad}}{\text{set}}$. $\mu r = 1$,

$$\Rightarrow \beta = W/\mu_0 \hat{\epsilon}_0 = 10^7 \pi \cdot \sqrt{4\pi \times 10^7} \cdot 8.854 \times 10^{-17} = \frac{\pi}{30} \frac{\text{rad}}{m}$$

$$H = 4 \times 10^6 \cos (10^7 \pi t - \frac{\pi}{30} \text{ y} + \frac{\pi}{4}) \hat{a}_2 \frac{A}{m}$$

$$t = 3 \text{ms}, H_8 = 0$$

Since cos (3) =0

Also,
$$\hat{u}_{k} = \hat{u}_{k} \cdot \hat{u}_{H}$$
 where $\hat{u}_{k} = \hat{u}_{y}$ and $\hat{u}_{y} = \hat{u}_{z}$

$$\beta = W \sqrt{\mu x}$$
, $W = 10^7 \pi \frac{\text{rad}}{\text{sec}}$. $\mu r = 1.5 r = 1$



3.
$$F(t,z) = 0.00 \text{ (i.e. t. - 15)} - 0.00 \text{ (i.e. t. - 15)} \text{ //m}$$

1)

$$W = (0.00 \text{ rad/s})$$

$$\Rightarrow 200 f = (0.00 \text{ rad/s})$$

nave number:
$$k = \sqrt{3}$$

$$\Rightarrow \lambda = \frac{1}{2} = 2 \times \sqrt{3} = 10.88 \text{ m}$$

$$k = N \int_{\mathbb{R}^2} \left(\frac{1}{2} \right) \sqrt{2} r = \frac{1}{2} \int_{\mathbb{R}^2} \left(\frac{1}{2}$$

 $\vec{H} = \frac{1}{\eta} \left(a_2 \times \vec{E} \right) = \frac{\vec{B}}{120\pi} \left[a_3 \sin \left(10^3 e - \frac{2}{33} \right) + a_4 \cos \left(10^3 e - \frac{2}{33} \right) \right]$