NS.
$$\vec{H} = -\frac{1}{c} \vec{n} \times \vec{A}$$
, $\vec{E} = \frac{1}{c} \vec{n} \times (\vec{n} \times \vec{A})$

$$\vec{E} = -\nabla \rho - \frac{1}{c} \vec{O} + \frac{1}{c} \vec{A}$$

$$\varphi(t, \vec{r}) = \varphi(t - \frac{\vec{r} \cdot \vec{n}}{c}), \quad \vec{A}(t, \vec{r}) = \vec{A}(t - \frac{\vec{r} \cdot \vec{n}}{c})$$

$$\vec{f} = t - \frac{\vec{r} \cdot \vec{n}}{c}, \quad \vec{A}(t, \vec{r}) = \vec{A}(t - \frac{\vec{r} \cdot \vec{n}}{c})$$

$$\vec{f} = t - \frac{\vec{r} \cdot \vec{n}}{c}, \quad \vec{A}(t, \vec{r}) = \vec{A}(t - \frac{\vec{r} \cdot \vec{n}}{c})$$

$$\vec{f} = t - \frac{\vec{r} \cdot \vec{n}}{c}, \quad \vec{f} = \frac{1}{c} \vec{n}, \quad \vec{f} = -\frac{\vec{r} \cdot \vec{n}}{c}$$

$$\vec{f} = \frac{1}{c} \vec{n}, \quad \vec{f} = -\frac{\vec{r} \cdot \vec{n}}{c}, \quad \vec{f} = -\frac{\vec{$$

A34. N2. X(+) = a sinw+, y(x) = a(1-2x2) y(+) = a cos/2m+) d= 9 rin= 9 (x(+), y(+),0) = 9 (asinw+, a cos (2w+),0) = 9 (-aw2sinw+, -a4w2cogzw+,0)=-gaw2(sinw+,400) H= c2R d×n= -9aw² | ex | ey | ez | = c2R | sinw+ 4 cos 2w+ 0 | = c2R | sinOcos 4 sinOs into coso | = - \frac{qw^2a}{c^2R} (\vec{e}_x \cdot 4 \cos 2w + cos 0 - \vec{e}_x \sin w + cos 0 + + ez (sin w + sin Osin (p - 4 cos 2w + sin Ocos (p)) Hy = - Hx siny + Hy cosp = - 6 (+ 400 2w+ cos Osiny -- Sinut cos O cos y) = & cos O (4 cos 2w + Sing + Sinw + cosy 1 / C. Ho = - Hz sin D + H, cos O = - Hz sin D + (Hx cos y + Hy sin) = (4cos 2w + cos q - Sinw+sing) sing + + (4 cos 2w+ cosp - sin w+ sin up) cos20 = = 4 cos 2w + cos p - sin w + sin p 1 = = = = = (080 (4 cos 2 wt sin 4 + sin wt cos 4) Mp = 2 c2 R (Sinutsing - 4 cos 2 w + cos p) Hr = H2 cos 0 + Hx. SIN 0 = \$25100 cos 0 (4 cos 2 w + cos 4 - Sinus set

$$H = \frac{1}{c^2R} \frac{d^2x n^2}{d^2x} = \frac{1}{c^2R} \left(\frac{1}{2} \frac{1}{x} \frac{1}{n} \frac{1}{x} \frac{1}{n^2} + \frac{1}{4} \frac{1}{4} \frac{1}{n} \frac{1}{n^2} \right)$$

$$S = \frac{1}{4\pi} \left(\frac{1}{4} \frac{1}{n} \frac{1}{n^2} \frac{1}{x} \frac{1}{n^2} \frac{$$

$$\begin{array}{l} N_{3} \cdot \chi(4) = \alpha \left(\frac{t^{3}}{3T^{3}} - \frac{2t^{5}}{3T^{5}} - \frac{7}{40}\right); \ \gamma(4) = \alpha \left(\frac{4^{1}}{7^{4}} - \frac{t^{2}}{2T^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{t^{3}}{7^{3}} - \frac{2t^{4}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{4}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{4}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{4}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{4}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{4}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{4}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{2}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{2}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{2}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{2}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{2}} - \frac{t^{2}}{7^{2}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{3}} - \frac{t^{5}}{7^{5}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{4t^{3}}{7^{5}} - \frac{t^{5}}{7^{5}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{3}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{2t^{5}}{7^{5}} - \frac{8t^{5}}{7^{5}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{5}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{2t^{5}}{7^{5}} - \frac{8t^{5}}{7^{5}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{5}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{2t^{5}}{7^{5}} - \frac{8t^{5}}{7^{5}}\right) \\ \dot{\chi}(4) = \alpha \left(\frac{2t}{7^{5}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{2t^{5}}{7^{5}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{2t^{5}}{7^{5}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{2t^{5}}{7^{5}} - \frac{8t^{5}}{7^{5}}\right); \ \dot{\gamma}(4) = \alpha \left(\frac{2t^{5}}{7^{5}}$$