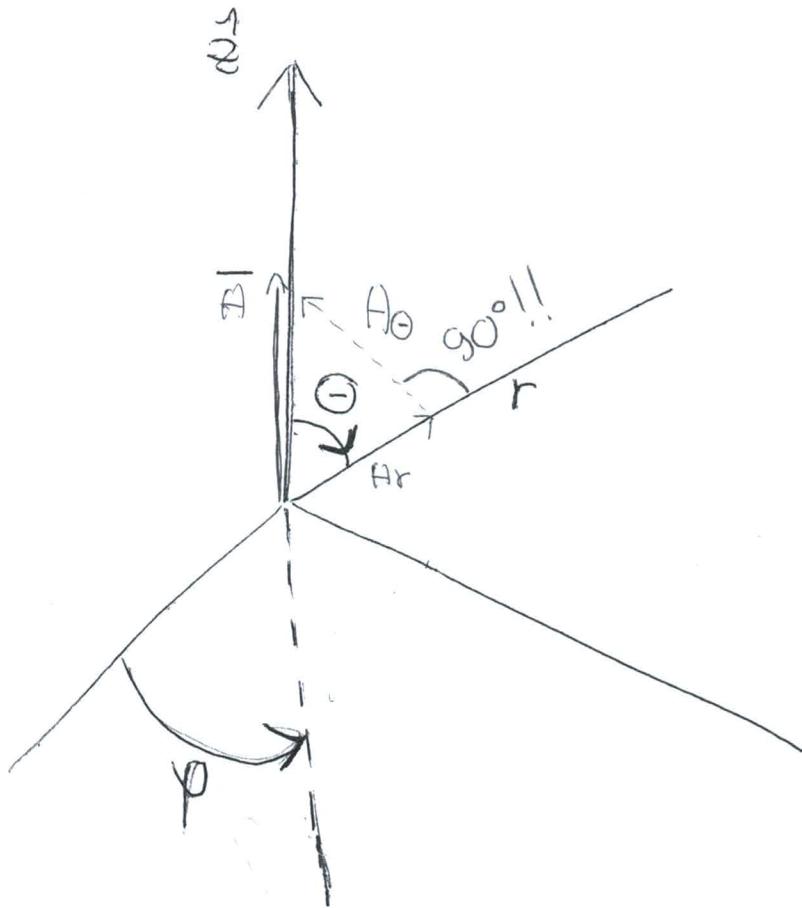


$$B(r, \theta, t) \text{ at } d \ll \frac{c}{\omega} = \frac{\lambda}{2\pi} \ll r$$

(2)



$$\vec{A}(r, \theta, t) = - \frac{\mu_0}{4\pi} \rho \frac{\omega}{r} \sin\left(\omega\left(t + \frac{r}{c}\right)\right) \hat{z} \quad // \hat{z}$$

$\phi = 0^\circ$  in our 2D model  
or any other angle

$$A_r = A(r, \theta, t) \cos \theta$$

$$A_\theta = A(r, \theta, t) (-\sin \theta)$$

Follons right-hand rule

