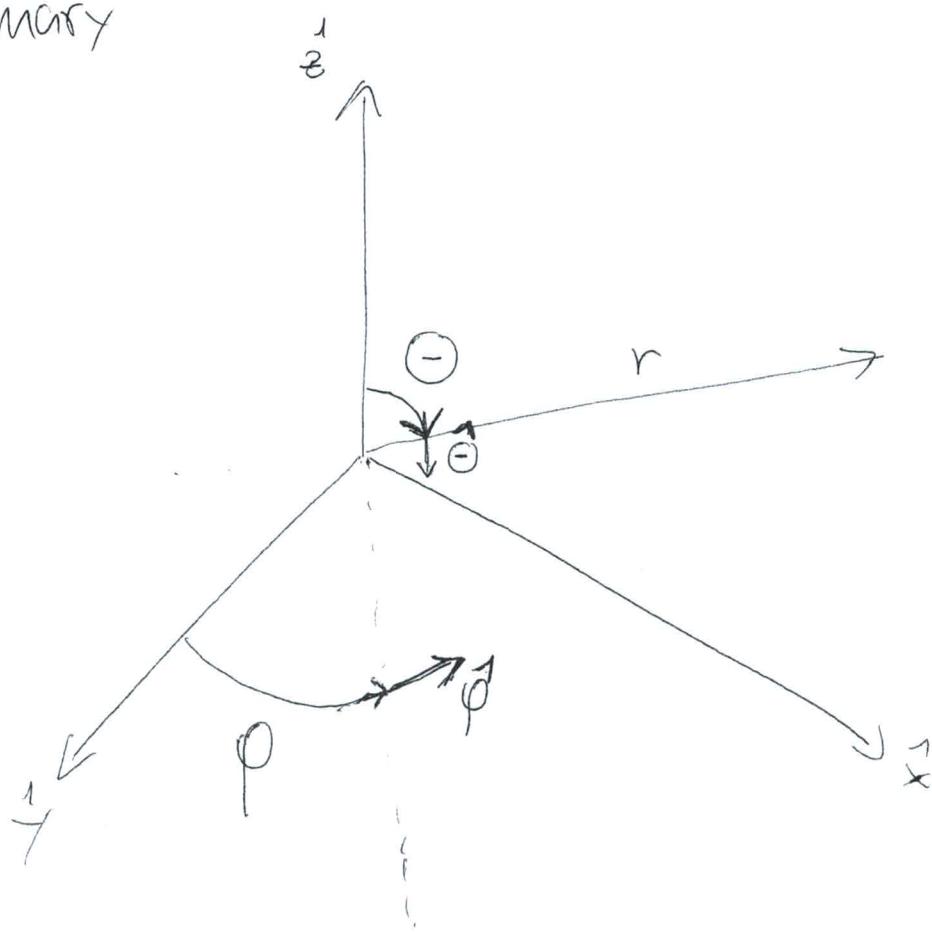


④

SUMMARY



$$\text{at } d \ll \frac{c}{w} = \frac{\lambda}{2\pi} \ll r$$

$$\phi(r, \theta, t) = \frac{P_0}{4\pi\epsilon_0} \frac{\cos\theta}{r} \frac{w}{c} \sin\left(w\left(t + \frac{r}{c}\right)\right)$$

$$\bar{A}(r, \theta, t) = -\frac{\mu_0}{4\pi} P_0 \frac{w}{r} \sin\left(w\left(t + \frac{r}{c}\right)\right)^{\frac{1}{2}}$$

