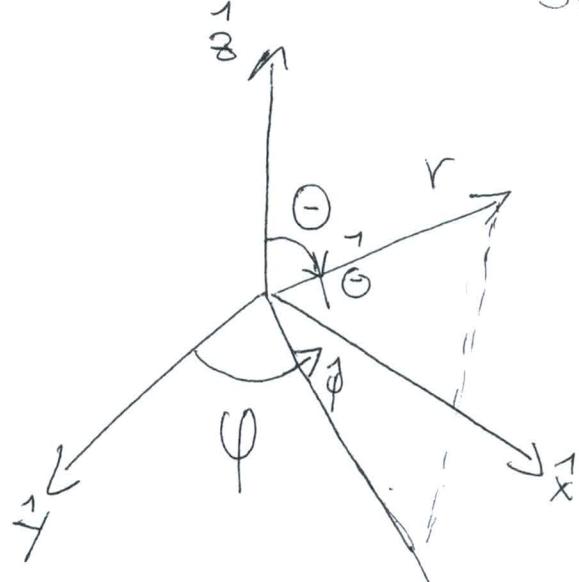


(4)

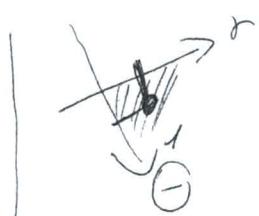
## SUMMARY



$$\phi(r, \theta, t) = \text{scalar}$$

$$\bar{A}(r, \theta, t) \parallel \hat{z}$$

$$\nabla \phi(r, \theta, t) \parallel \hat{r}$$



$$\frac{\partial \bar{A}(r, \theta, t)}{\partial t} \text{ in } (r, \theta) \text{ plane}$$

$$\bar{B}(r, \theta, t) = \bar{r} \times \bar{A}(r, \theta, t)$$

$$\bar{E}(r, \theta, t) = -\nabla \phi(r, \theta, t) - \frac{\partial}{\partial t} \bar{A}(r, \theta, t)$$

} what direction?

