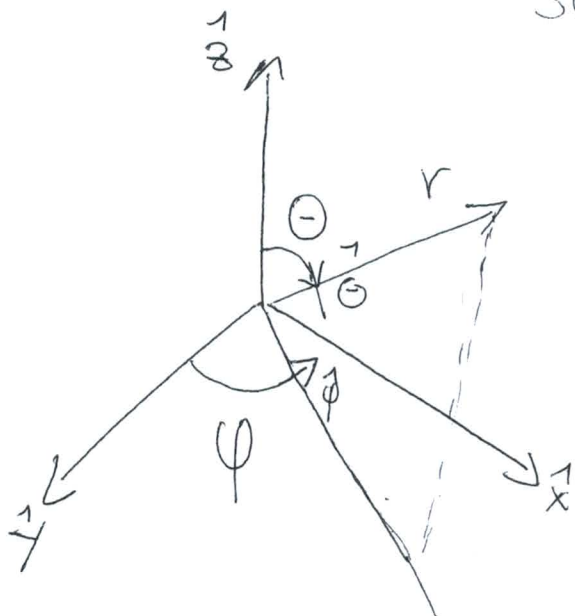


Summary

①

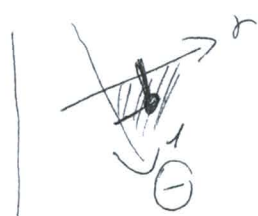


$$\phi(r, \theta, t) = \text{scalar}$$

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

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

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



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

$$\vec{E}(r, \theta, t) = -\nabla \phi(r, \theta, t) - \frac{\partial}{\partial t} \vec{A}(r, \theta, t) \left. \vphantom{\frac{\partial}{\partial t} \vec{A}(r, \theta, t)} \right\} \text{What direction?}$$

