## * Sketching fields *

Sketch the following electric field:
$\vec{E}(\vec{r})=\frac{p}{4 \pi \varepsilon_{0} r^{3}}(2 \cos \theta \hat{r}+\sin \theta \hat{\theta})$
Some things to think about:
What direction does it point at points on the z -axis? On the $+/-\mathrm{x}$ axis?
How does it behave far away?
What happens near the origin?
What's the physics?

