

## Questions for P435 Lecture Notes 8

- 1.) Why should we care about *approximate* solutions for the scalar potential  $V(\vec{r})$  and/or electric field  $\vec{E}(\vec{r})$ ? What are their benefits, and what are their uses?
- 2.) What are electric multipole moments of an electric charge distribution?
- 3.) When is it appropriate to use such approximate solutions the scalar potential  $V(\vec{r})$  and/or electric field  $\vec{E}(\vec{r})$ ?