## Assignment 6 PHGN361

## Homework due Feb. 22

1. Chapter 4 problems 1 ( $10^8$  V,

4 (force proportional to  $r^{-3}$ ),

5 (torque proportional to the product of the dipole moments and  $r^{-3}$ ),

9 (a. force proportional to  $r^{-3}$  and  $\overrightarrow{p} - 3\overrightarrow{p} \cdot \hat{r} \hat{r}$ ),

10,

11,

14,

15.