Homework due March 1

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.