

**Chem 155 Homework #8** Due at the start of class on Mon. Mar. 3  
Reading: Chapter 5, Chapter 6 sections 6.1-6.2

**Chapter 5 Problems:**

5.1

5.8

5.15

5.24

5.29

5.31

5.36

5.46

**Chapter 6 Problems:**

6.1

6.2

6.3

**Additional Problems:**

- 1) Use the radial probability distribution to calculate the most probable distance of finding an electron from the nucleus of a hydrogen atom. Compare with the Bohr model of the atom.
- 2) Find an image of a *single molecule* taken with a *Scanning Tunneling Microscope* that was published in a scientific journal. Print it out the figure and cite the reference.