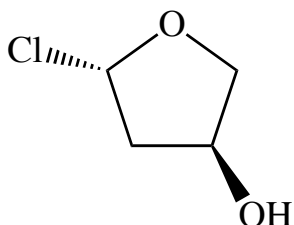


Chemistry 250A Mock Stereochemistry Quiz

1. Indicate the configuration (R/S) of the chiral centers in the following molecule. For full credit, show your priority ranking for the groups.



2. Draw an enantiomer of the molecule in question 1. Indicate the configuration (R/S) of the chiral centers in this molecule.

3. Draw a diastereomer of the molecule in question 2. Do you expect this compound to be optically active? Why or why not?

4. Draw a *meso* molecule.

5. Does the R/S stereochemistry of chiral centers on a cyclohexane ring switch when you flip from one chair conformation to another? What must always occur in order to change the stereochemistry at a chiral center?