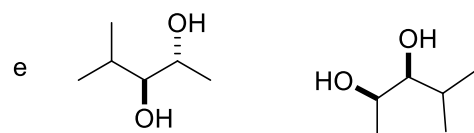
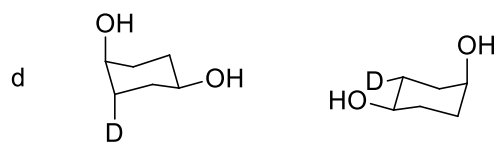
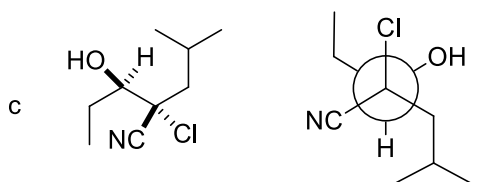
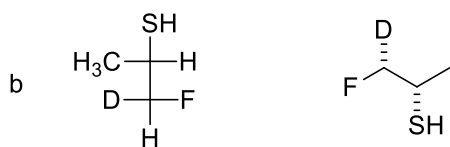
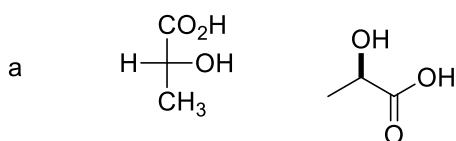


## WORKSHOP 7

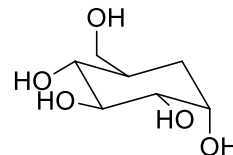
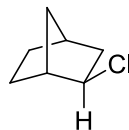
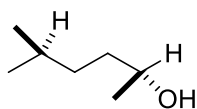
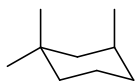
*Stereochemistry*

1. a. Identify if the following pairs of compounds as **identical**, **constitutional isomers**, **enantiomers**, or **diastereomers**.  
 b. Assign **configuration (R or S)** to all stereocenters.  
 c. For the following pairs of compounds, pick one and draw a constitutional isomer, its enantiomer and a diastereomer.

It may help to make molecular models of these compounds to confirm your assignments.



2. Name the following compounds in IUPAC. Use absolute stereochemistry.



3. For each of the following reactions, predict whether the product will be optically active, a racemic mixture or achiral. **Explain your choice.**

