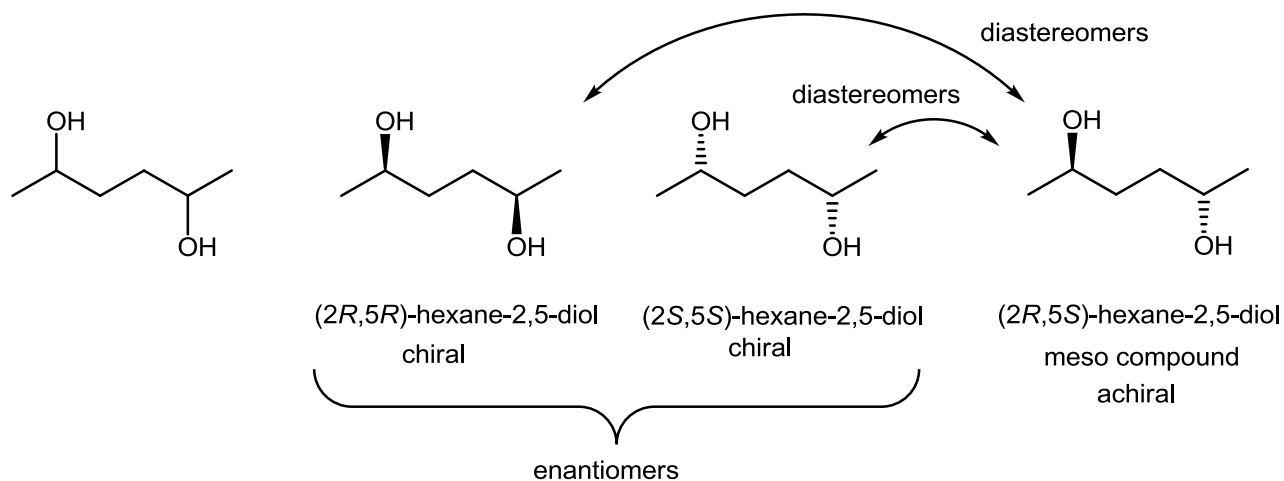


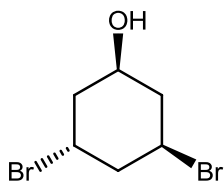
Quiz 4 (50 points)

Name _____ Key _____

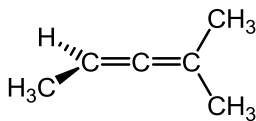
1. Show *all* of the stereoisomers of the following compound using the correct symbols to show stereochemistry. Assign the *configuration* of any stereocenters with the appropriate notation (put these in the appropriate location in the name of the compound, which is hexane-2,5-diol). Show which of the isomers are *enantiomers* and which are *diastereomers*, and (if present) label any *meso* compounds. (30 points)



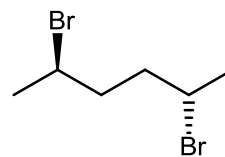
2. Label the following as either *chiral* or *achiral*. (15 points)



chiral

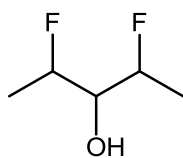


achiral

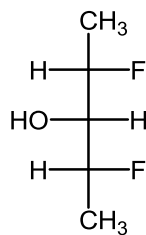
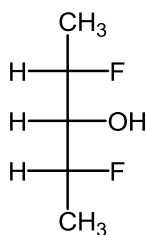


achiral

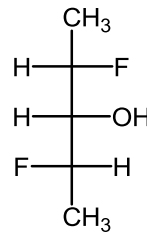
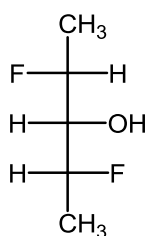
3. How many *stereoisomers* are there for the following compound (using Fisher projections may be helpful) (5 points)



4 isomers



both meso
compounds
and achiral



both chiral, so
enantiomers