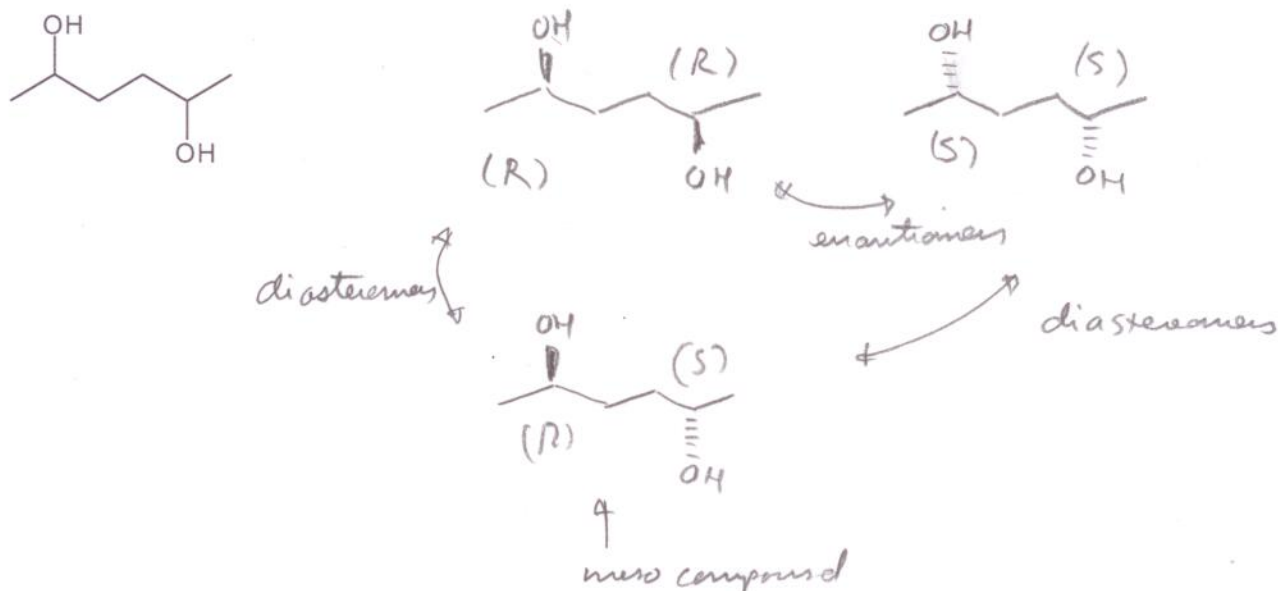


Quiz 4 (50 points)

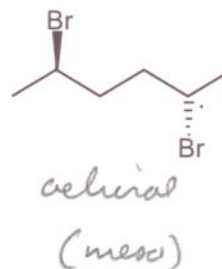
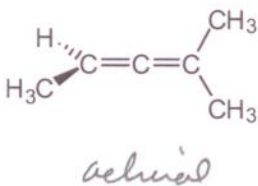
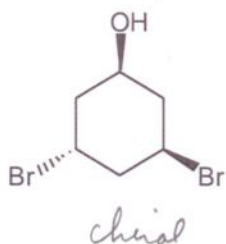
key

Name \_\_\_\_\_

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. (25 points)



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



3. The naturally occurring amino acid *threonine* has the (2S,3R)- configuration. Draw this compound using the line angle/dash/wedge notation. The condensed formula is below (for numbering, carbon 1 is at the CO<sub>2</sub>H). (10 points)

