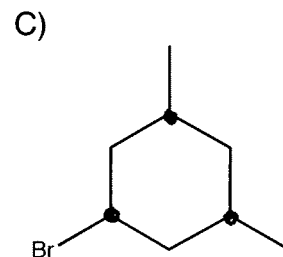
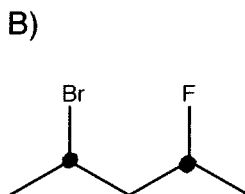
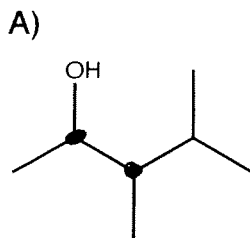


## CHEM 234 – Stereochemistry 3

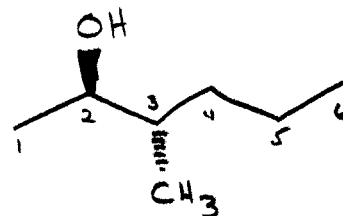
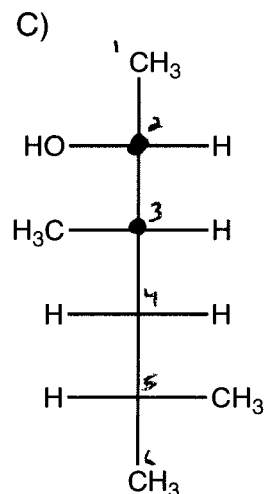
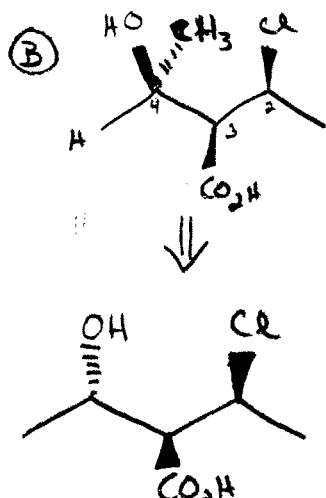
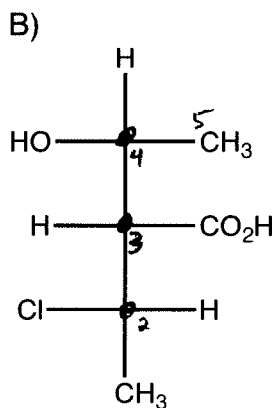
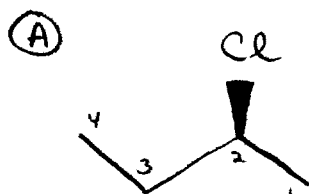
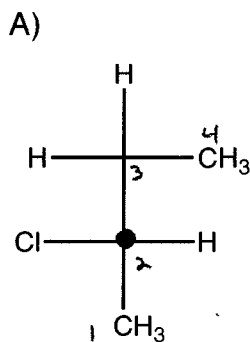
1) Draw structures for **all** of the possible stereoisomers for each of the following structures. (*Answer on a separate page.*)

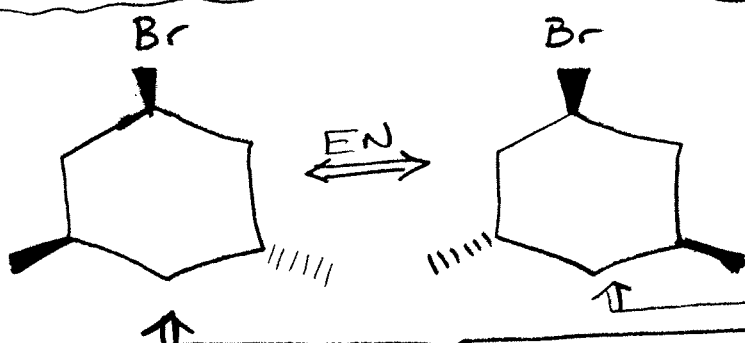
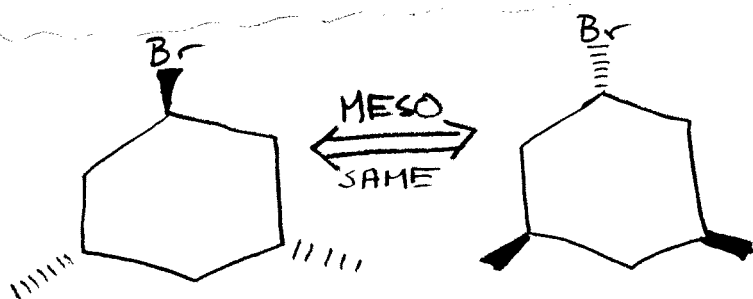
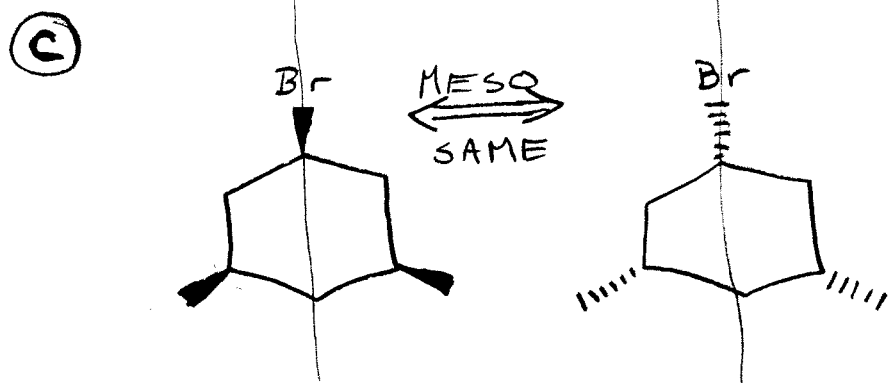
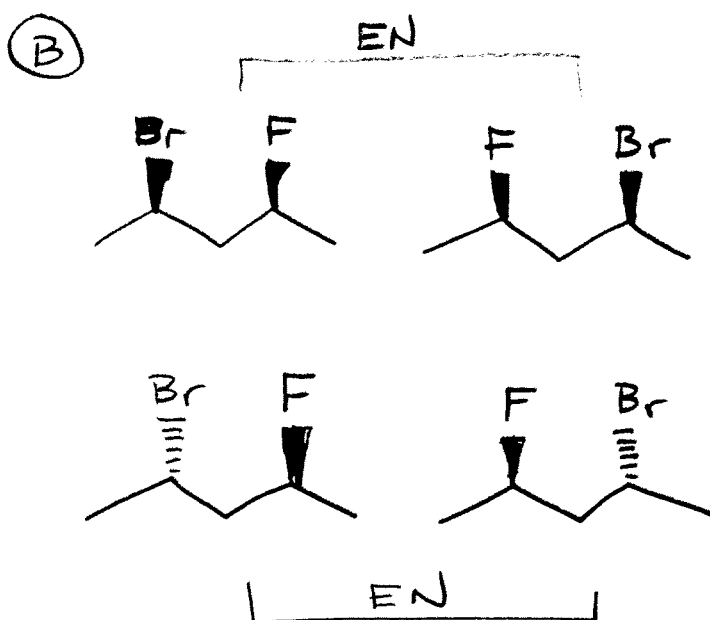
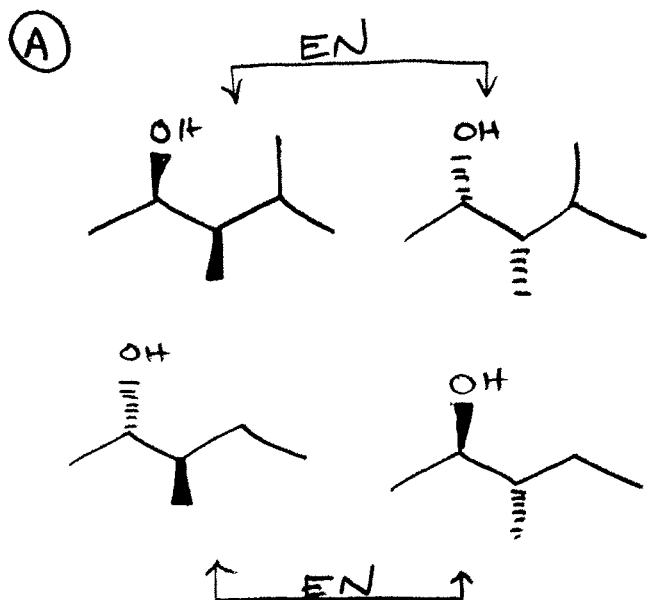
- Indicate any pairs of enantiomers.
- Indicate any MESO compounds (if you have drawn two identical structures, clearly indicate that they are the same or cross one of them out).
- Unless otherwise indicated the relationship between any two structures will be assumed to be diastereomers.



*see following page*

2) Convert the following Fischer projections to bond-line formulas, clearly showing stereochemistry.





$n = \# \text{ chiral centers}$

$2^n = 2^3 = 8$  possible  
arrangement  
on paper

In this case,  
only 4 distinct  
stereoisomers

