

NAME (Print): _____

SIGNATURE: _____

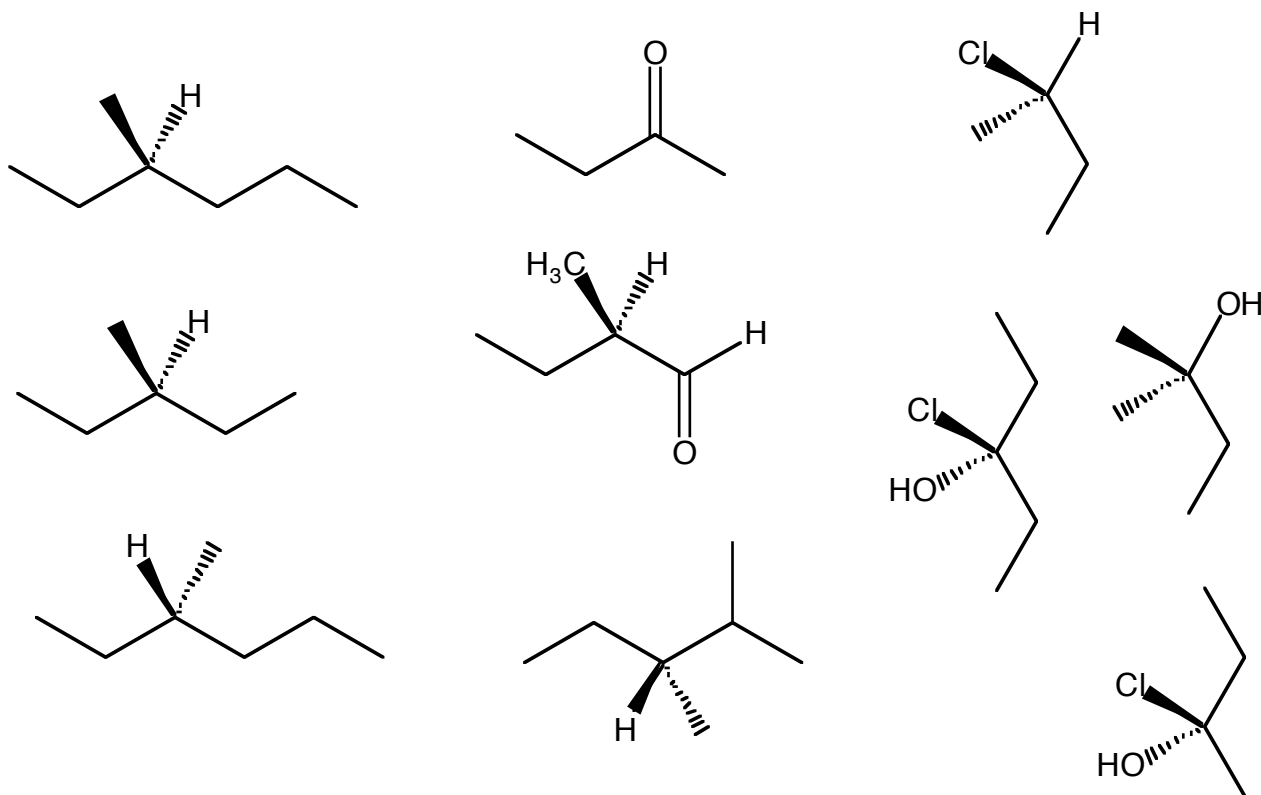
**Chemistry 310M
Dr. Brent Iverson
Practice Homework
October 1, 2007**

**Please print the
first three letters
of your last name
in the three boxes**

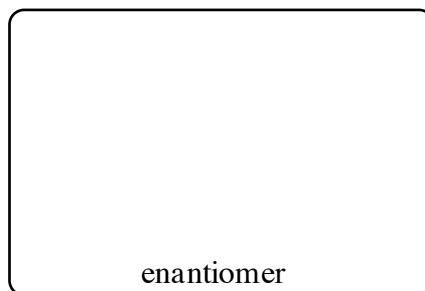
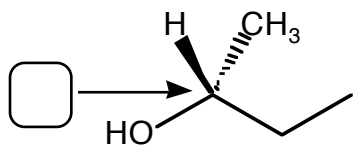
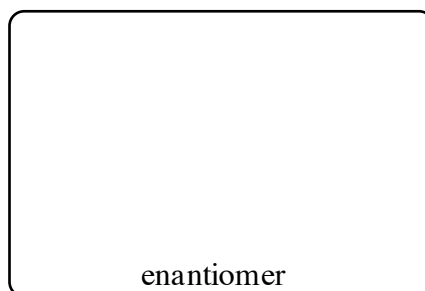
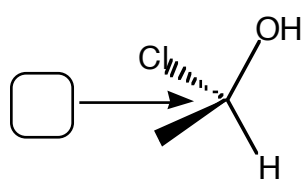
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Score: _____

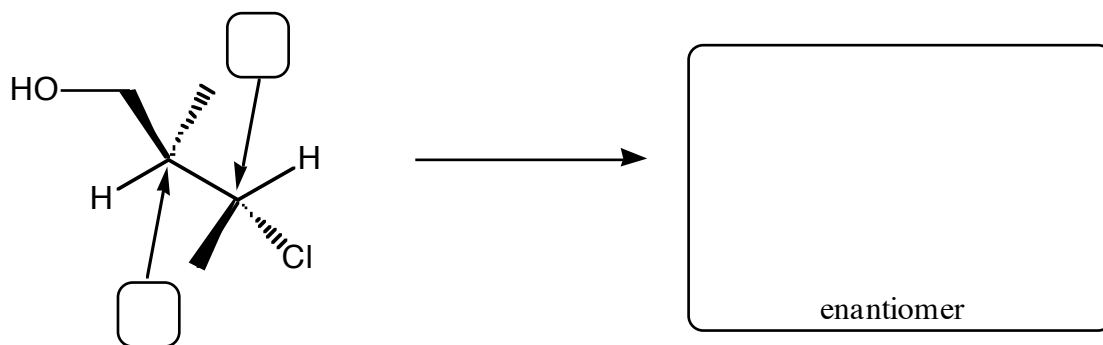
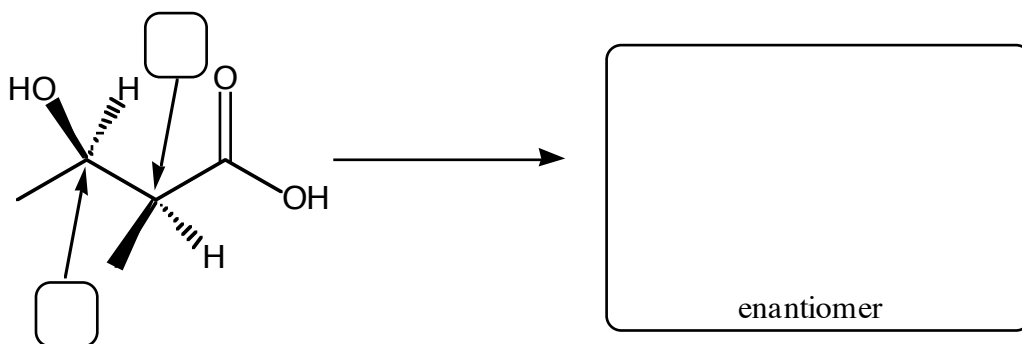
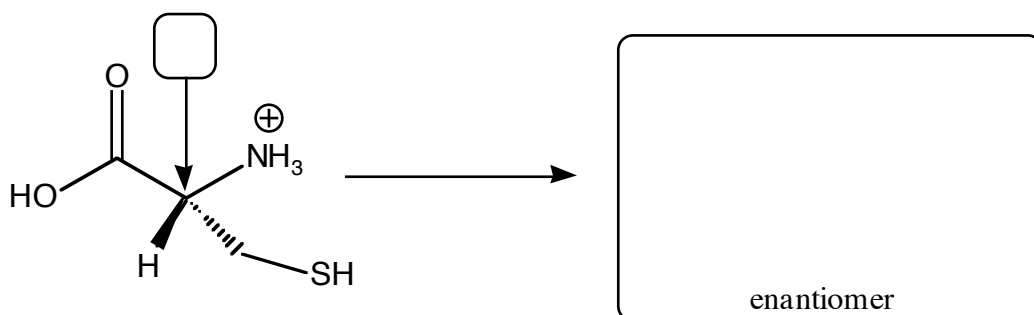
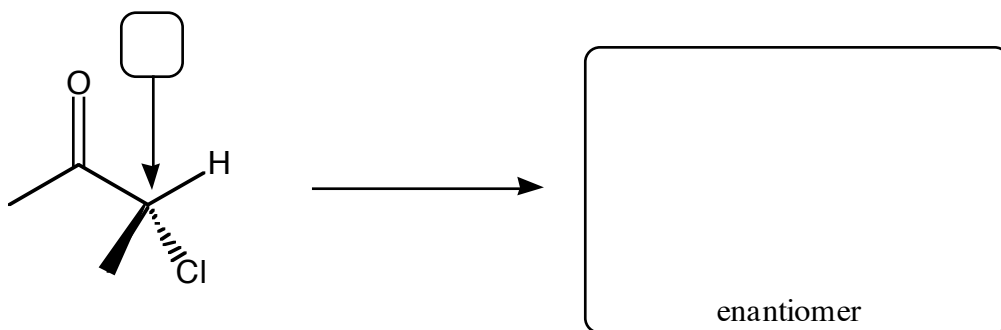
1 (2 pts each). Circle the molecules that are chiral. For each one that is, determine the configuration of the chiral center and write "R" or "S" next to the chiral center.



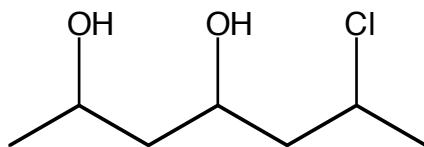
2 (2 pts each). For each molecule, label the chiral centers as "R" or "S". Then, in the space provided to the right of each molecule, draw its enantiomer.



2 (cont.) (2 or 3 pts each). For each molecule, label the chiral centers as "R" or "S". Then, in the space provided to the right of each molecule, draw its enantiomer.



4. (8 pts) There is no stereochemistry implied in the structure below. Draw all of the unique molecules (i.e. stereoisomers) that share this constitutional arrangement. (Hint: be systematic!)



5. (1 pt each) On the following molecules, put an asterisk next to each chiral center.

