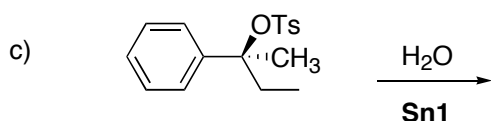
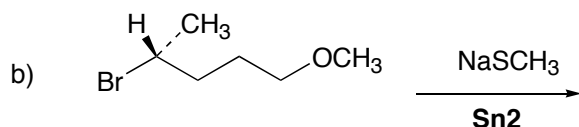
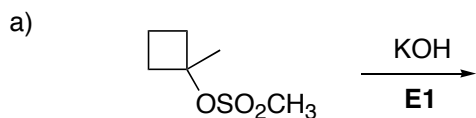


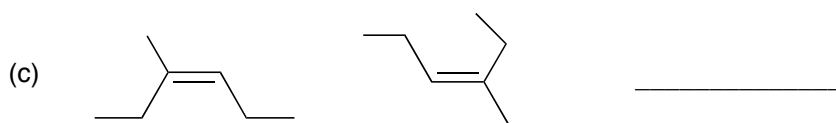
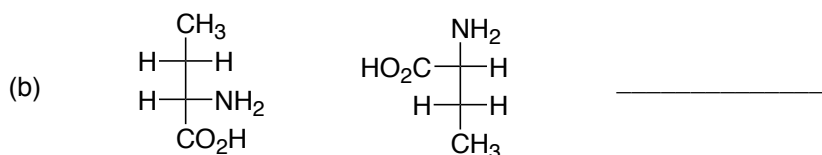
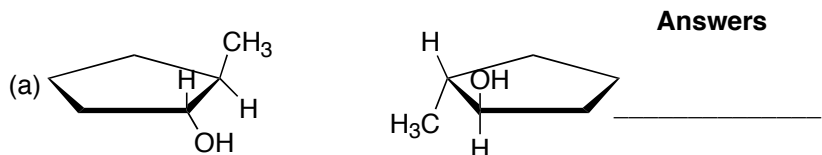
Name \_\_\_\_\_

CHE 310  
S 2008  
Exam 3  
Ch 6,7

1. (15 pts) Complete the following reactions



2. (15 pts) Indicate whether the following pairs of compounds are **enantiomers**, **diastereomers**, **constitutional isomers**, or **identical**. Ignore any conformational differences (i. e., anti and gauche *n*-butane are identical).



3. (9 pts) (-)-Menthol is a natural product isolated from the peppermint plant. **Clearly** identify the stereochemistry (R/S) of all the stereocenters in menthol.

answers

a) \_\_\_\_\_

b) \_\_\_\_\_

c) \_\_\_\_\_

