Fall 2006 Homework #2

due: 10 a.m. Mon. Sep. 12th

1. (12 points) Write the correct IUPAC name for each of the following:

a. NH_2

c.

b. ______

d.

2. (12 points) Draw the structure corresponding to the name given. Please show all stereochemistry clearly.

a. (3R,6R)-(4E)-6-methyl-4-octen-3-ol c.

1,1-dimethylpropyl butanoate

- b. (3S)-2,3-dimethylheptane
- d. (3R)-3-methylcyclopentanone
- 3. (6 points) For each pair, indicate whether they are diastereomers, enantiomers or the same.