Fall 2008

Homework #2

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

Note: please do not fax HW unless you are detained far from campus

1. (8 points) Write the correct IUPAC name for each of the following:

2. (8 points) Draw the structure corresponding to the name given. Please show all stereochemistry clearly.

- a. (4*R*, 6*R*)-4,6-dimethyl-2-octanone
- (2*E*)-2-butenyl 3-methylbutanoate

b. (1R, 3R)-3-methylcyclopentanol d. (3S, 7R)-7-amino-3-octanol

3. (8 points) For each pair, indicate whether they are diastereomers, enantiomers or the same.

4. (6 points) Draw a detailed arrow-pushing mechanism (other side) for the transformation of ${\bf A}$ to ${\bf B}$.

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