Homework Week 9

Concepts--Chapter 8: S_N2, S_N1, E2, E1, solvolysis, reaction order, polar protic vs. polar aprotic vs. non-polar solvents, inversion, relative nucleophilicity, basicity, leaving group ability, Zaitsev’s rule, anti-coplanar

Skills: Predict whether reactions will occur by S_N1, S_N2, E1, or E2 mechanisms
        Understand the impact of solvent, nucleophile, and electrophile on the mechanism of substitution or elimination.
        Predict outcome, including stereochemistry, of S_N1, S_N2, E1, E2 reactions when given reagents
        Write mechanisms of S_N1, S_N2, E1, E2 reactions
        Predict relative nucleophilicity, basicity, leaving group ability
        Identify nucleophilic, electrophilic, acidic and basic sites within molecules

Monday, April 15
    Read through section 8.10
    Problems 8.16-22

Tuesday
    Problems 8.24-30

Wednesday
    Finish reading Chapter 8
    Problems 8.31-33; 36, 37
    Homework to turn in on Friday, April 19

Friday, April 19
    Problems 8.38, 39, 41-45
The following problems should be turned in on Friday as part of your weekly quiz. Please write your answer on a separate sheet of paper and turn it in with your quiz. This problem should be completed individually.

1. Show how you would make the following three molecules on the left, starting with the molecules on the right (the fat open arrow represents thinking backwards, or originating from). More than one step may be required. Make sure to indicate the reagents you would use, in separate steps. You do not need to write mechanisms.