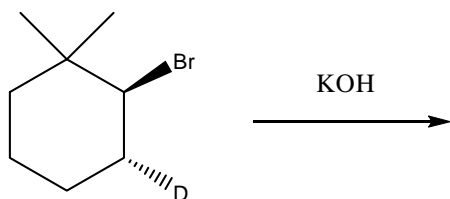
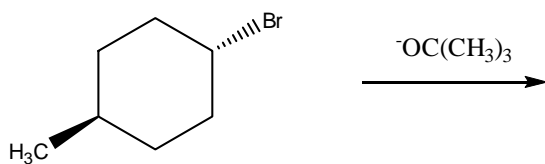
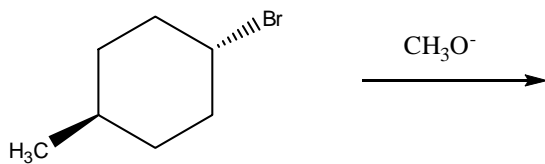
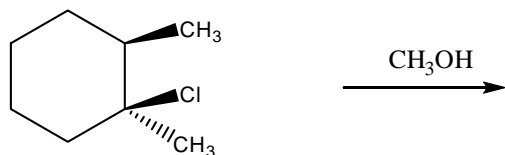
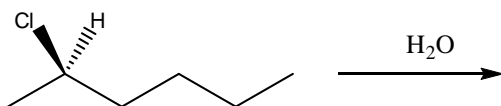
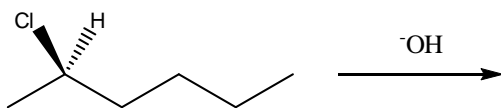
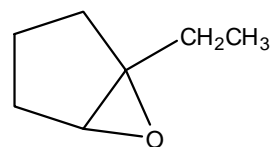
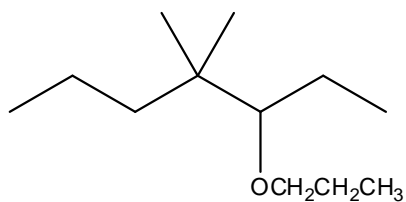
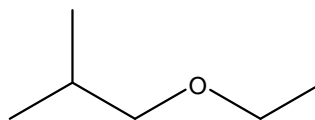
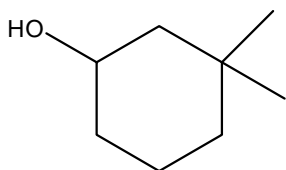


Discussion Problem Set 10

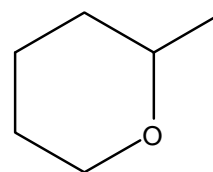
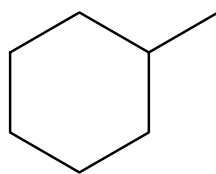
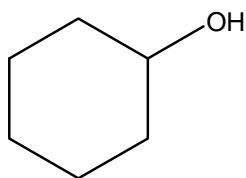
1. Determine whether each reaction will proceed through S_N1 , S_N2 , E1, E2, or multiple mechanisms. Draw the products arising from all mechanisms and label them as major or minor. (problem 8.51a-e,h)



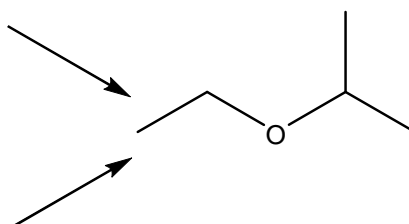
2. Give the IUPAC or common names for these compounds (problem 9.38e, 9.39bce)



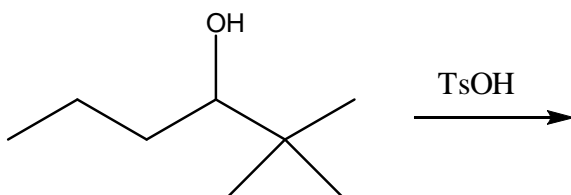
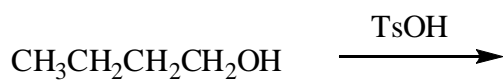
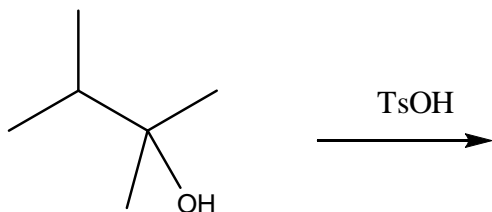
3. Rank in order of increasing boiling point. Explain. (problem 9.6a)



4. Provide the reagents necessary for two possible Williams ether syntheses of this ether. Which is the preferred route? (problem 9.59)



5. What alkene(s) result when these alcohols are dehydrated with TsOH? Mark each product as major or minor. (Problem 9.45ade)



6. Draw a mechanism for the formation of this product. (Hint: a rearrangement is necessary.) Problem 9.52

