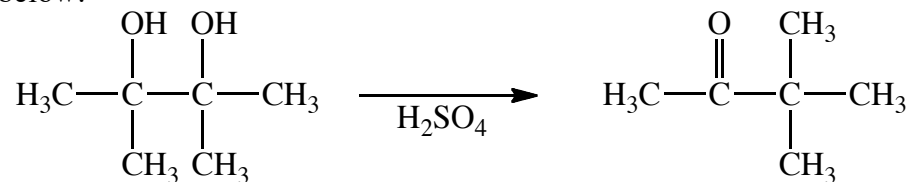


Name: _____

Chemistry 250A -- November 2, 2009 -- HW/Quiz #7

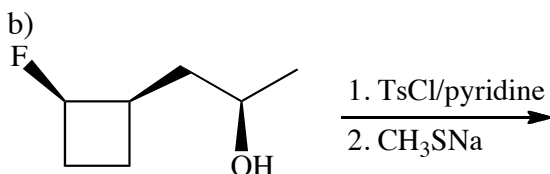
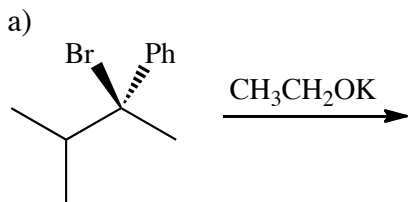
Due Thursday, November 5 in class

1. (5 pts) a) Draw a detailed mechanism (using curved arrows) for the rearrangement outlined below.

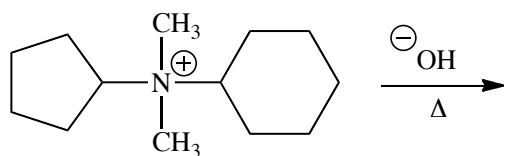


b.) Draw an approximate energy diagram for the mechanism you drew in part a and explain why the rearrangement step is favorable in this reaction.

2. (5 pts) Draw the major product(s) for the following reactions.



c) This reaction gives two products in a 95:5 ratio. Show both products. Extra credit if you can correctly identify the major product and provide a plausible explanation for why it predominates.



d) The following reaction gives three major products. (Hint: 1 elimination product and 2 substitution products. Hint 2: Look at resonance in the intermediate.)

