

**Name (First, MI, Last):**

**Student ID Number:**

**Circle the name of your TA:      AL      CARI      ROB**

**Discussion Section – Day:                      Time:**

**Chem 30B Fall 2003**

**QUIZ #1A**  
*(15 Min)*

**Wednesday October 8th**

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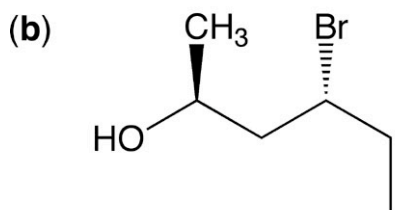
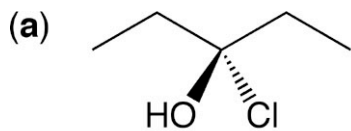
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**ONLY ANSWERS WRITTEN IN THE BOXES PROVIDED WILL BE GRADED**

**INTERPRETATION OF THE QUESTIONS IS PART OF THE EXAM –  
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*"And how is education supposed to make me feel smarter? Besides, every time I learn something new, it pushes some old stuff out of my brain. Remember when I took that home winemaking course, and I forgot how to drive?" - Homer Simpson*

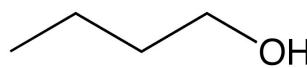
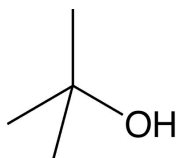
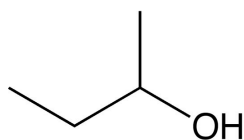
**Question 1** Give the systematic (IUPAC) name (including *R/S* notation where necessary) for each compound (3 points each)



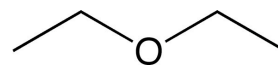
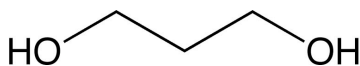
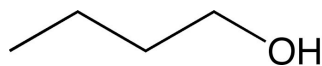
**Question 2:** Draw the structure of cyclopent-3-enol in the box below (2 points)



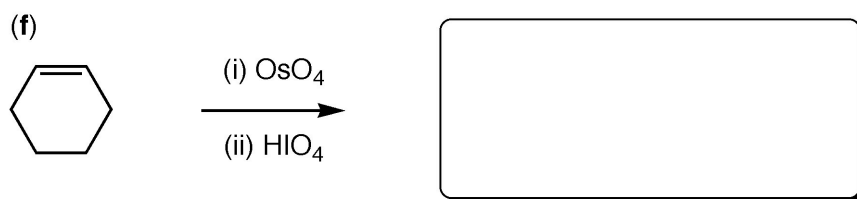
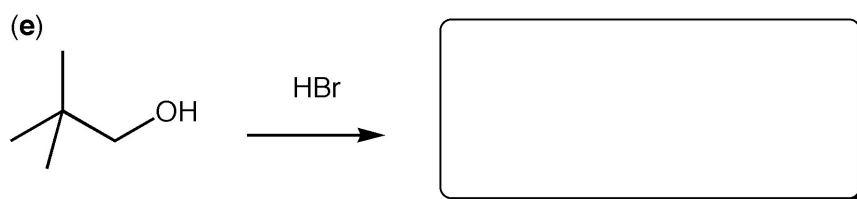
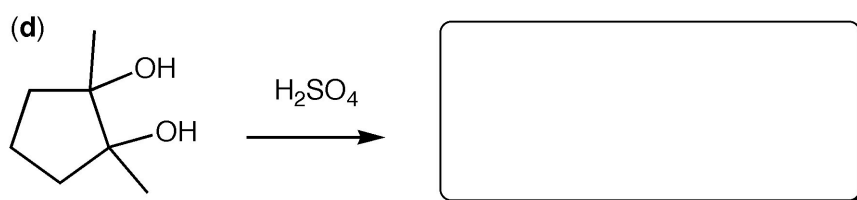
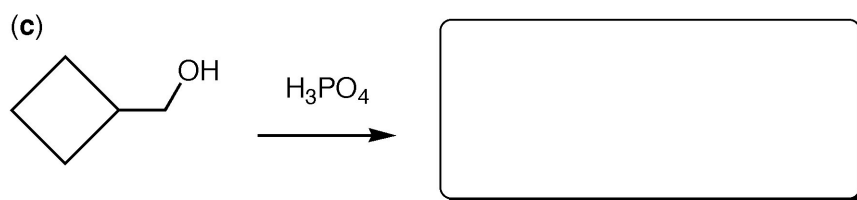
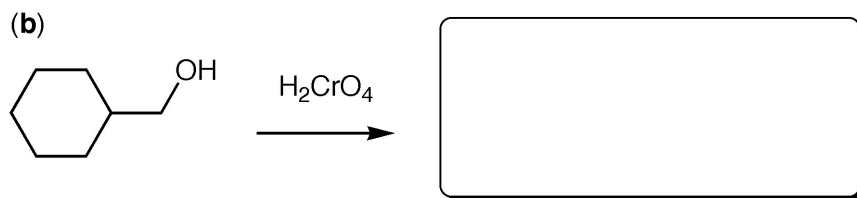
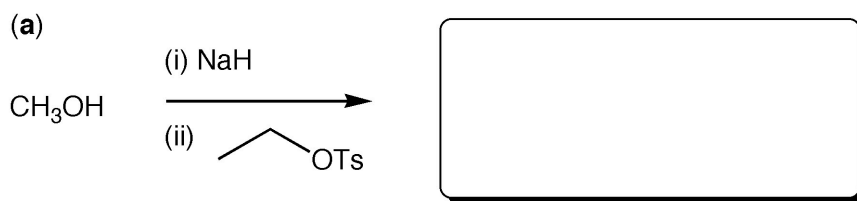
**Question 3:** Circle the compound with the highest boiling point (2 points)



**Question 4:** Circle the compound with the lowest boiling point (2 points)



**Question 5:** Each of these reactions produces ONE MAJOR PRODUCT. In each case, draw this product in the box provided. For the two-step reactions (a & f) just give the FINAL product, i.e., no intermediates (4 points each)



**BONUS QUESTION** (2 points): In the early hours of this morning, the winner(s) of the 2003 Nobel Prize for Chemistry were announced — name one of them:

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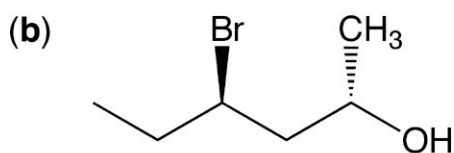
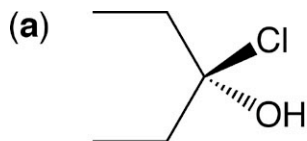
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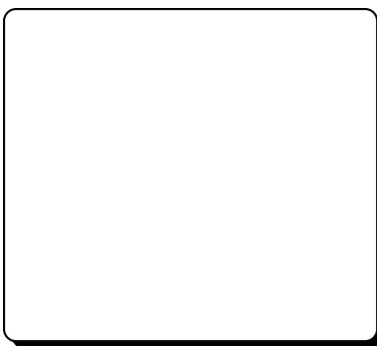
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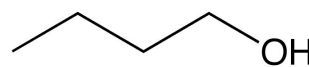
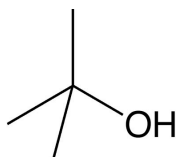
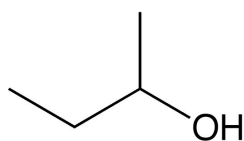
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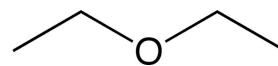
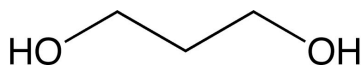
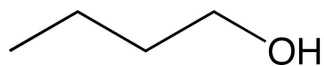
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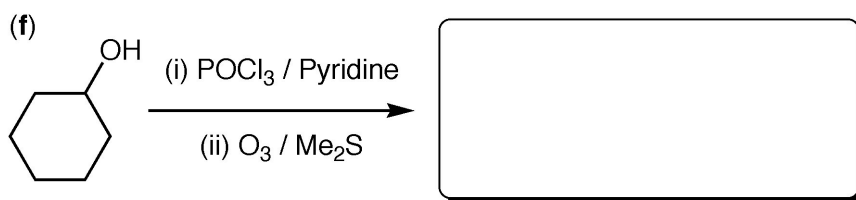
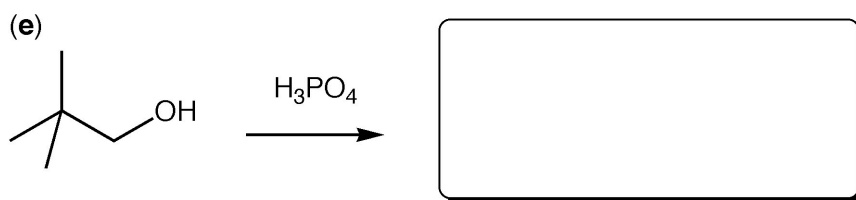
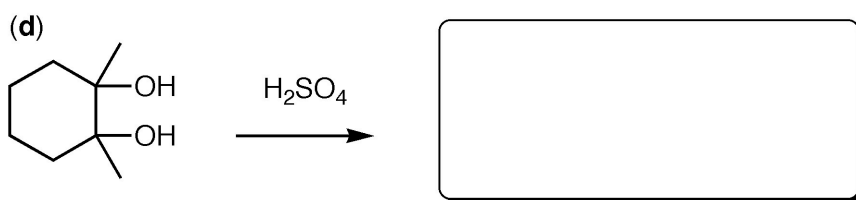
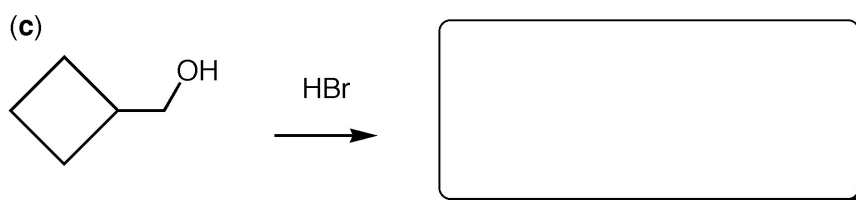
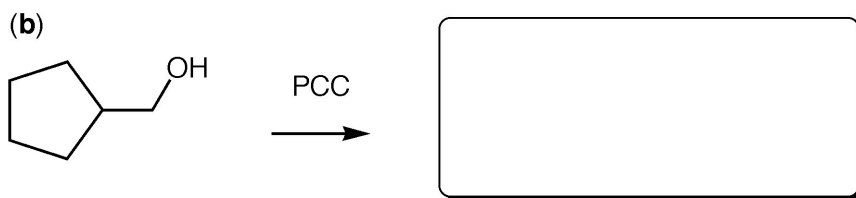
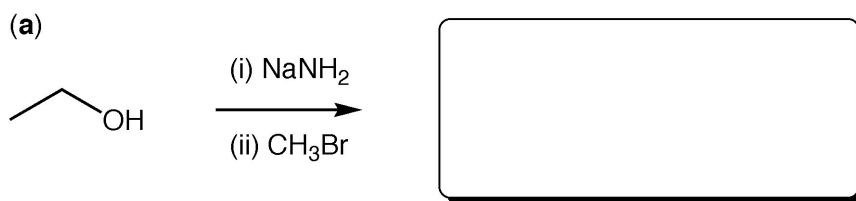
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