

**Chemistry 2541**  
**Fall Semester 2010**

**Quiz 6**

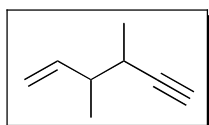
(25 points)

**December 1, 2010**

Printed Name (*Last*, First) \_\_\_\_\_

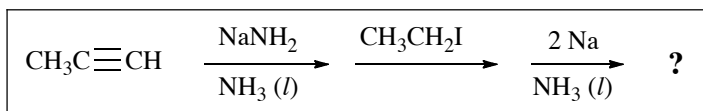
Good Luck!

1. (3) Circle the correct **IUPAC** name for the compound in the box:

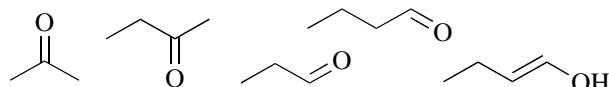
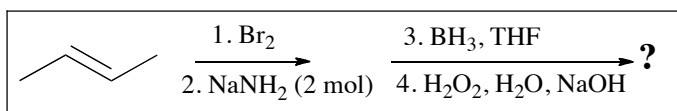


4-ethynyl-3-methyl-1-pentyne    3,4-dimethyl-1-penten-5-yne    3,4-dimethyl-5-hexyn-1-ene  
 3,4-dimethyl-1-hexen-5-yne    3,4-dimethyl-1-hexyn-5-ene    3,4-dimethyl-5-hexen-1-yne

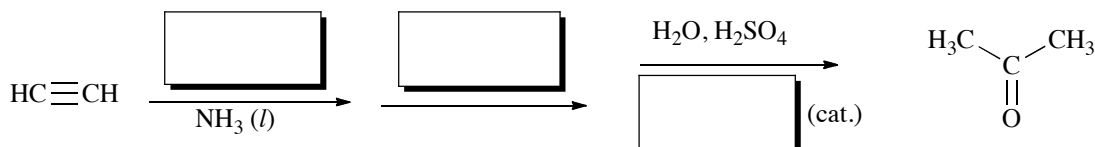
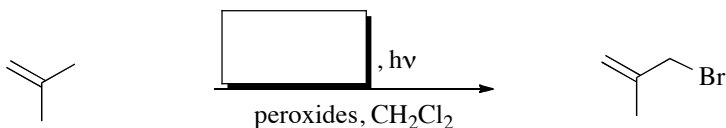
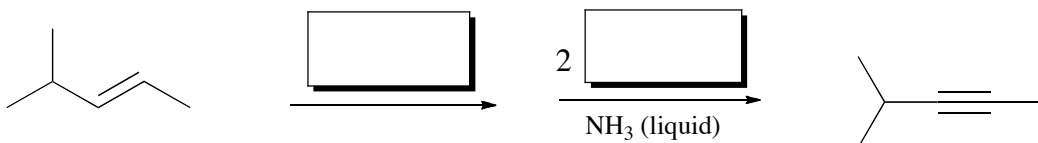
2. (8) Circle the major organic product obtained from the following sequences of reactions:



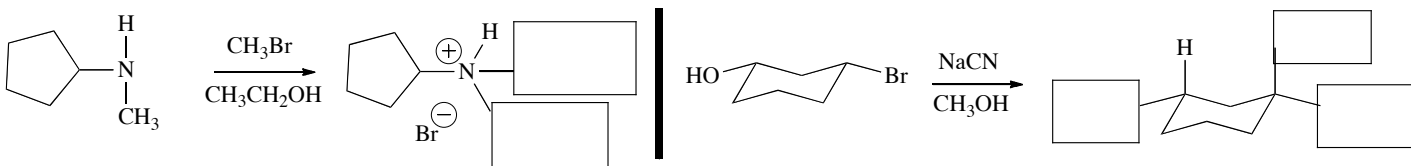
(Z)-2-pentene    (E)-2-pentene    1-pentene  
 2-pentyne    (Z)-2-iodo-2-pentene    (E)-2-butene



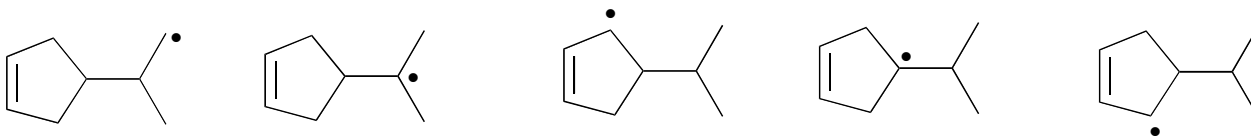
3. (6) Write reagents (in the boxes) that can be used to convert the reactant to the indicated product:



4. (5) Finish drawing structures of products for the following two reactions by placing appropriate substituents in the boxes (use a **condensed** structure for the alkyl groups, 1 pt each box)



5. (3) Circle the *least stable* radical:



Overall Score: \_\_\_\_\_