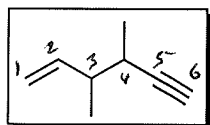


Key, Quiz 6, 2010

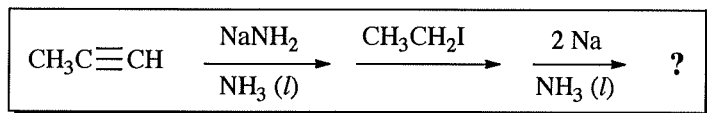
1. (3) Circle the correct **IUPAC** name for the compound in the box:



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

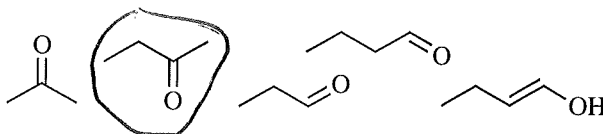
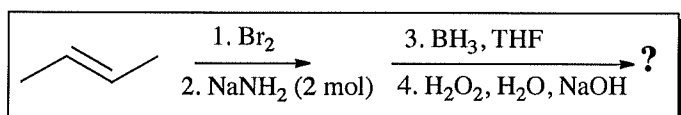
3 pts

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



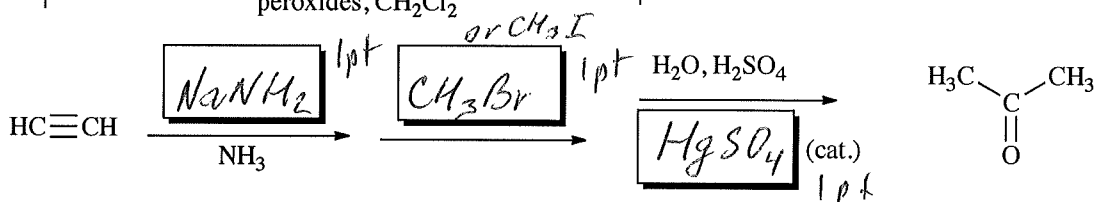
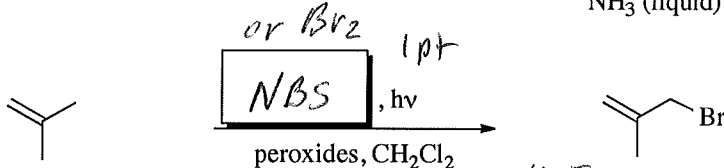
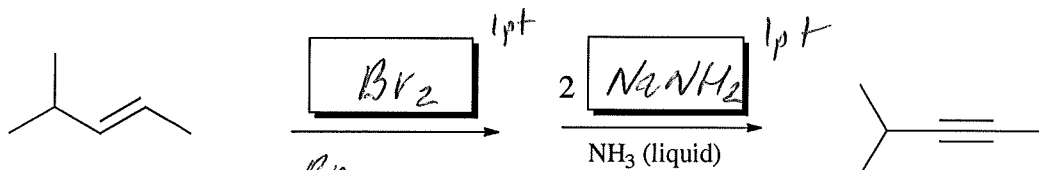
(Z)-2-pentene **(E)-2-pentene** 1-pentene
 2-pentyne (Z)-2-iodo-2-pentene (E)-2-butene

4 pts



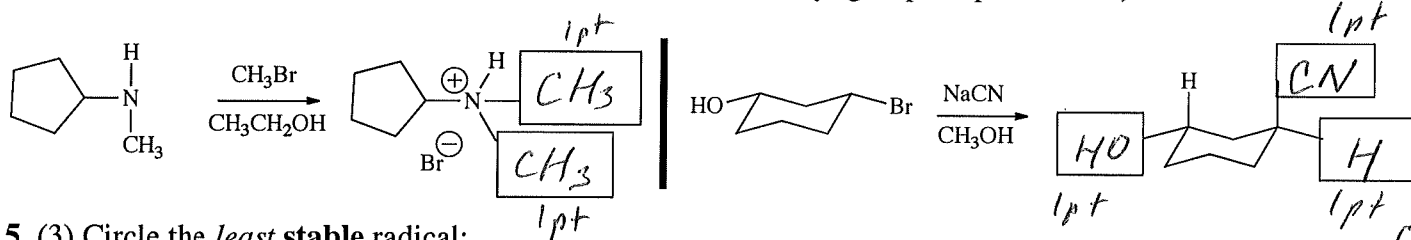
4 pts

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

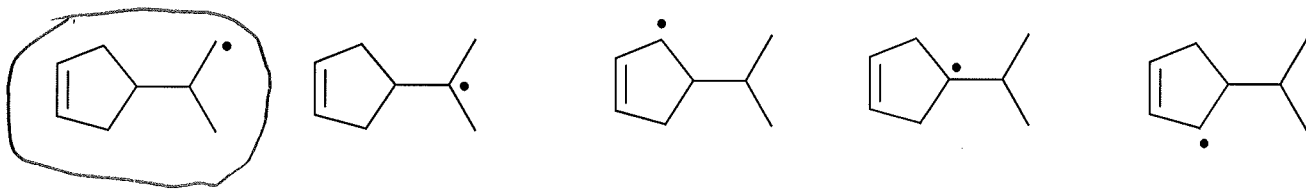


6 pts

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:



3 pts

Overall Score: 25