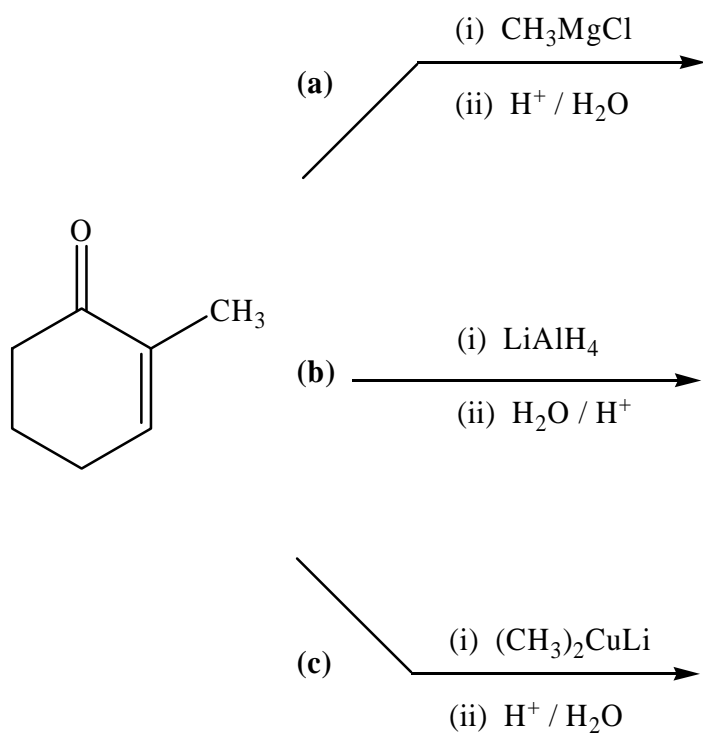
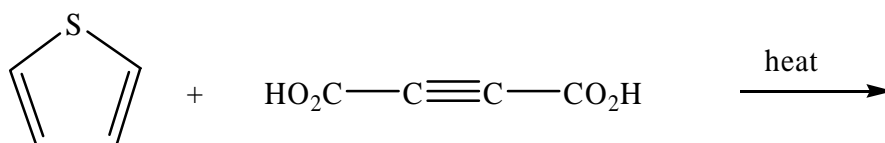


CHEM-202
Quiz # 7 Chapter 16: Conjugate Addition

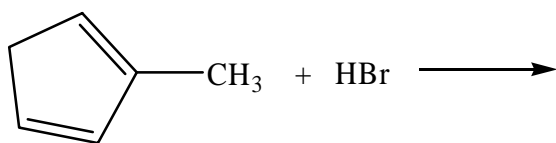
Q1. Predict the **major organic product** in each of the following reactions:



Q2. Predict the **Diels-Alder product** in the following reaction:



Q3. For the following reaction:



- (a) What is the product of the 1,2-addition.
- (b) What is the product of the 1,4-conjugate addition
- (c) .Which of the above two is the thermodynamic product?

Q4. Show the product and *mechanism* of the following 1,4-conjugate addition reaction. (*Use the proper arrows to indicate electron shifts*).

