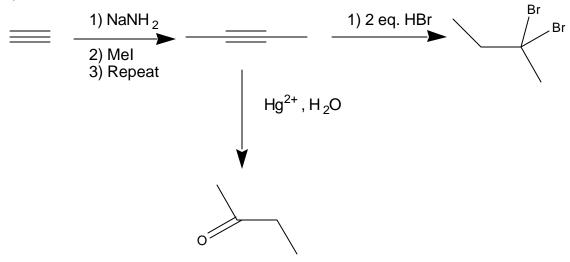
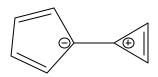
Exam 3 Chem3045 Friday, December 5, 1997 ANSWERS:

1)



- 2) A = 1,2 dibromobenzene
 - B = 1,3 dibromobenzene
 - C = 1,4 dibromobenzene
- 3) Will not be on exam 3

4)



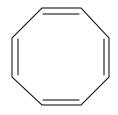
The central double bond will be polarized in order to create aromatic stabilization in both the 5 (6e- in pi-system) and the 3 membered rings (2e- in pi-system).

The five membered ring would hold the negative end of the dipole and the 3 membered ring would hold the positive end of the dipole.

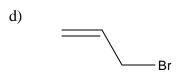
5) a)



b)



 $\begin{array}{c} c) \\ \text{CI}_3\text{C} -\!\!\!\!\!-\!\!\!\!\!- \text{CH}_3 \end{array}$





6. Study for this problem using P-set #5 and Answers.