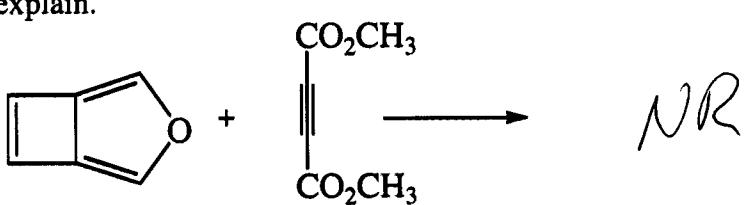
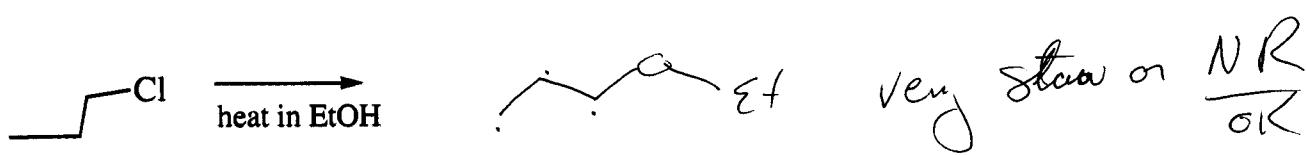
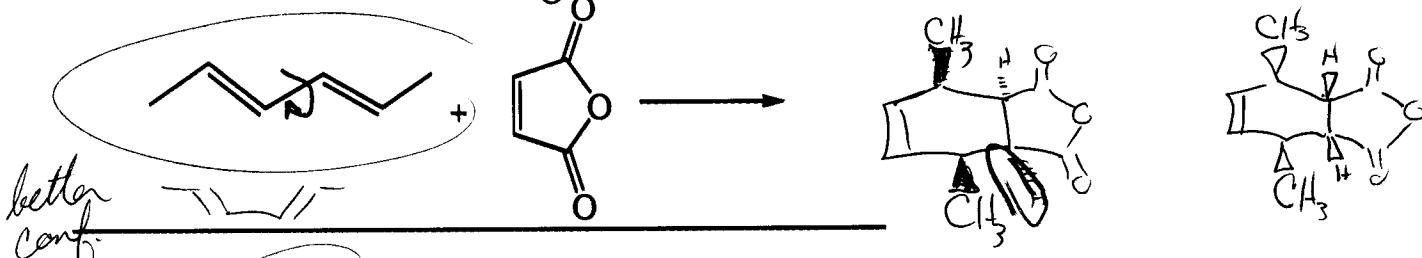
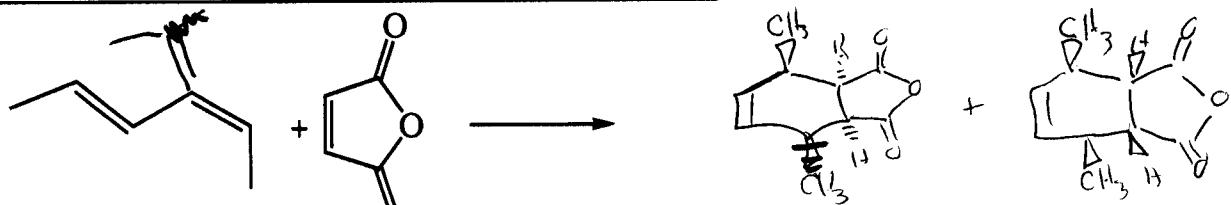
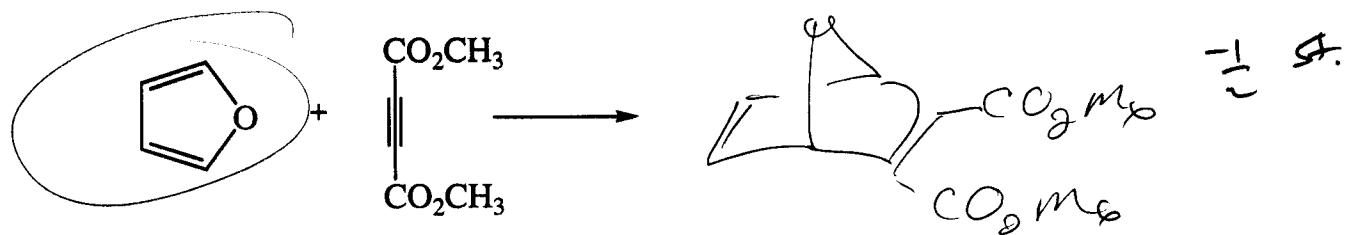


(4) +1 circle (9) +1 correct product +2 no rxn explain

2. (15 pts) Consider the following pairs of reactions. Write down the products and circle the reaction that is faster in each pair. If you think that no reaction will occur, write NR and provide a couple of words to explain.



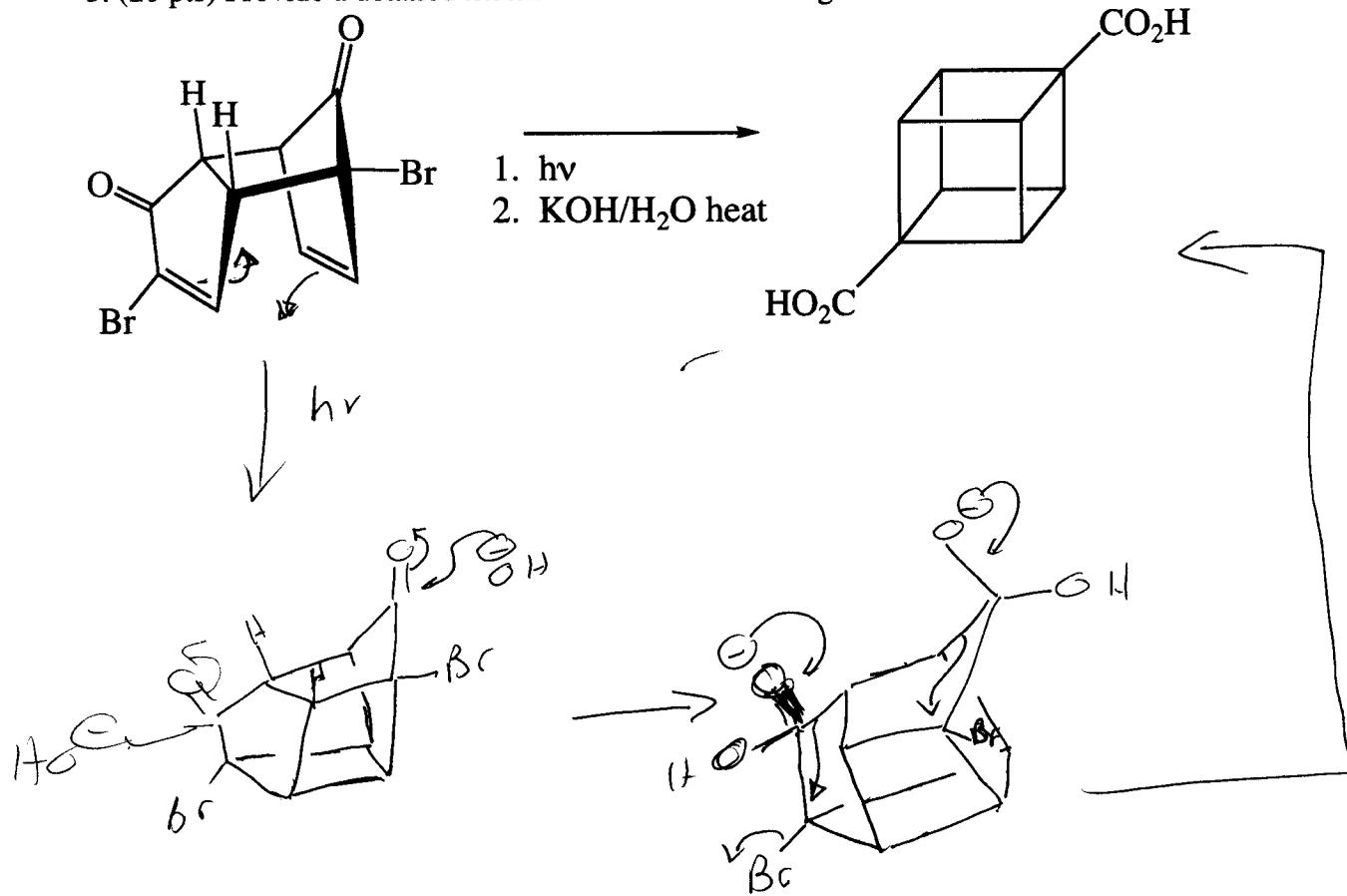
DA
Product would be
antiaromatic



Conflict

Conflict

3. (20 pts) Provide a detailed mechanism for the following transformation.

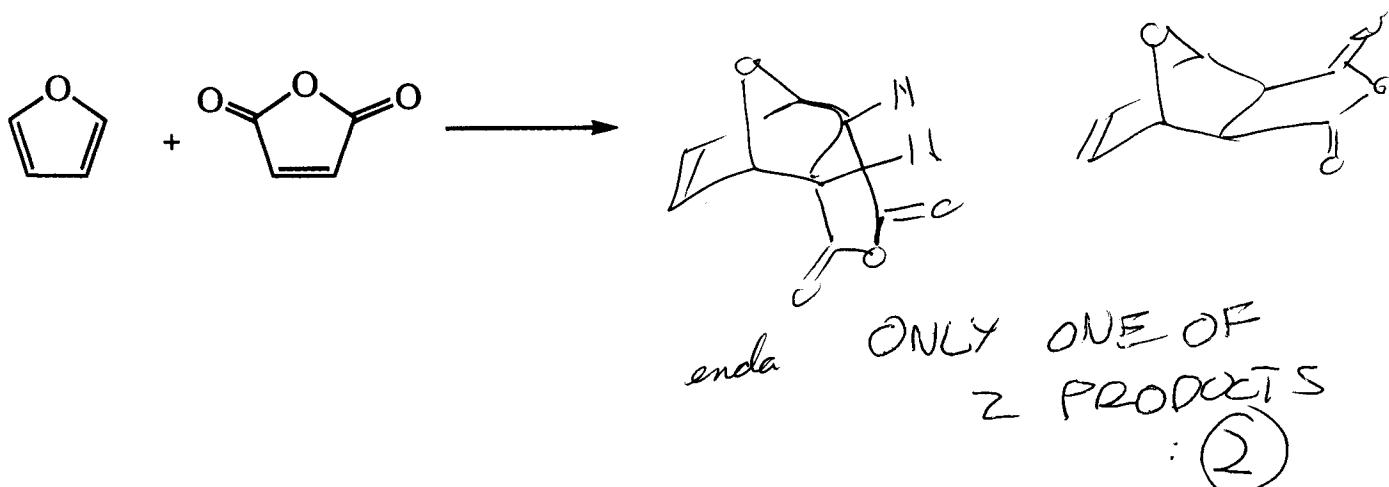
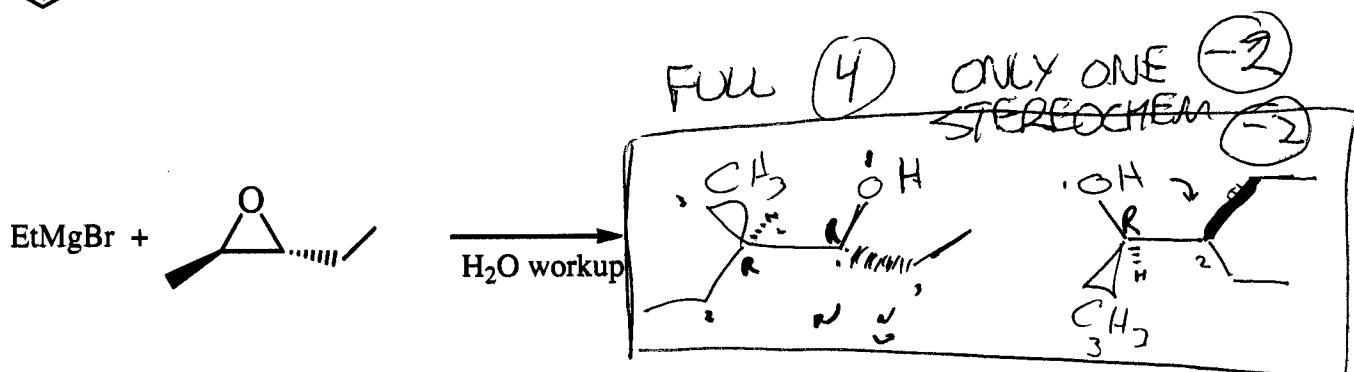
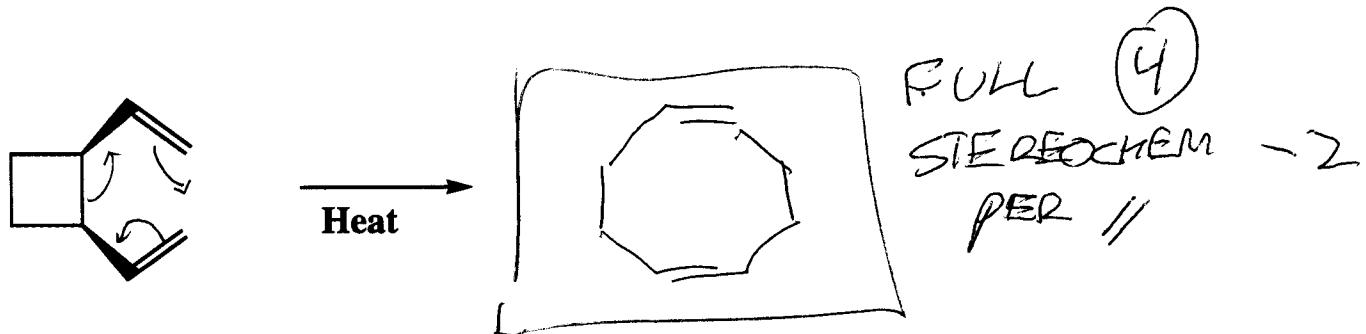
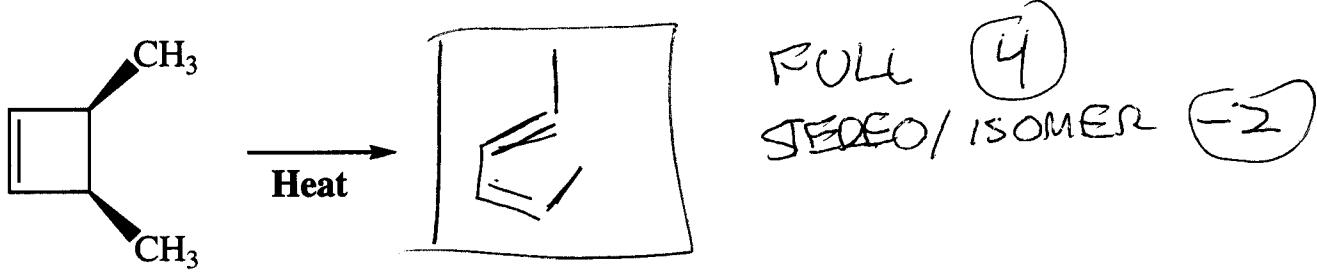


10 pts. for [2+2]

10 pts. for Favorskii rearrangement

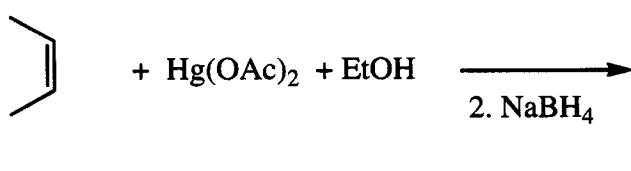
Conflict

4. (40 pts) Provide the products for the following reactions. Show all major products and stereoisomers.



Conflict

Problem 3 continued.



~~Conflict~~

