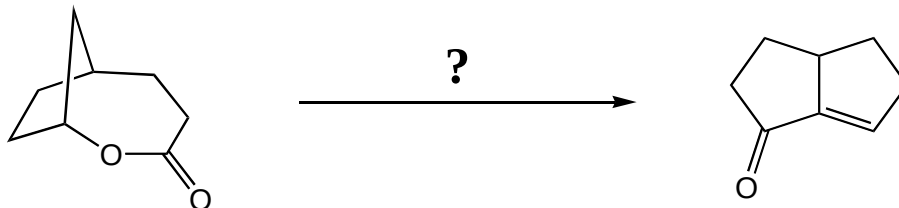
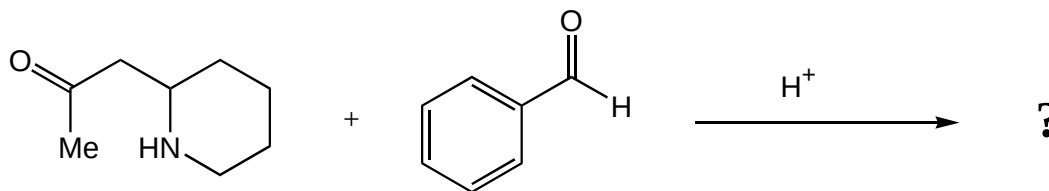


Organic Chemistry c3444y
Problem Set 6 - Enolate Chemistry
Due in class Friday, March 12.

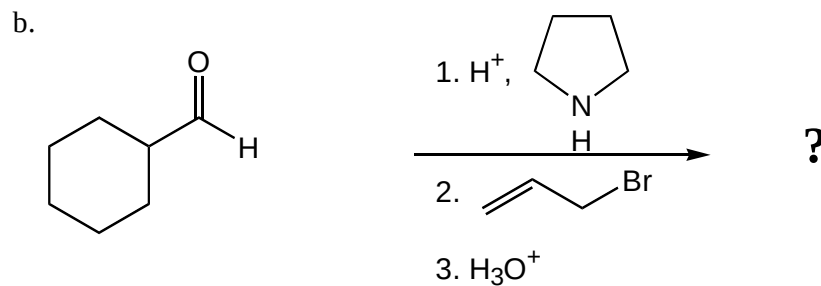
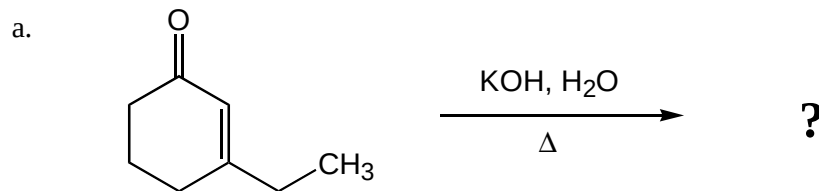
1. Propose a synthesis to accomplish the following transformation:
(Hint: Work backwards from the product one step. Then try to find similarities in the carbon atom connectivity between that intermediate and the starting material.)



2. Write out a mechanism for, and predict the product of the following reaction:



3. Predict the product of the following reactions:



Why is this the best way to achieve this transformation? There is, on paper, a one step method to achieve this, but it won't work here? Why not?

4. Write out mechanisms for both of the reactions in problem 3 above.
(These are long mechanisms, but they are excellent practice.)