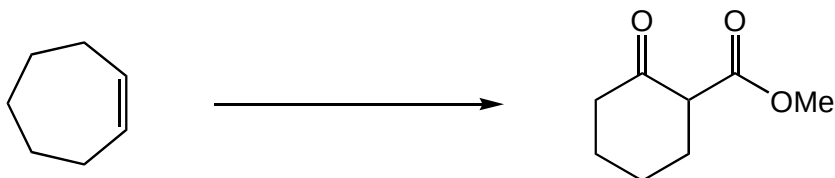
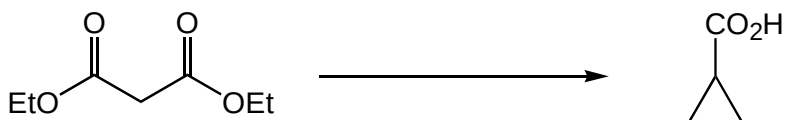


Organic Chemistry c3444y
Problem Set 8 - β -Dicarbonyls and Amines
Due in class Friday, April 9

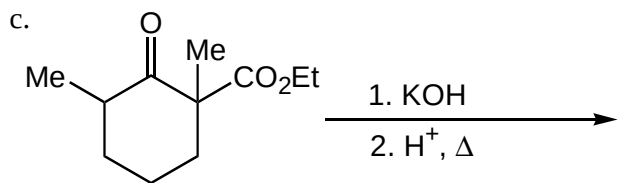
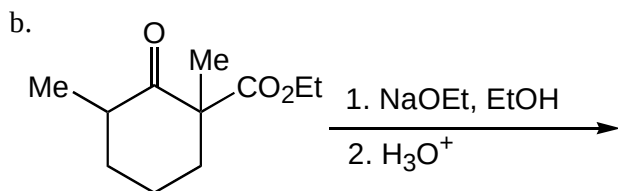
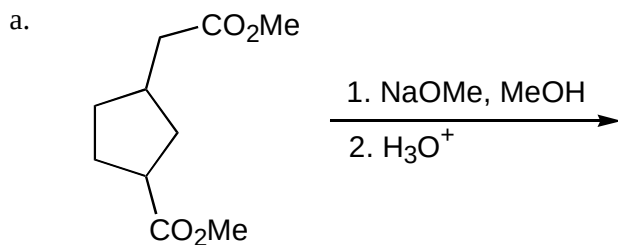
1. Propose a synthesis of the following β -ketoester from cycloheptene.



2. Propose a synthesis of the following carboxylic acid from diethyl malonate.

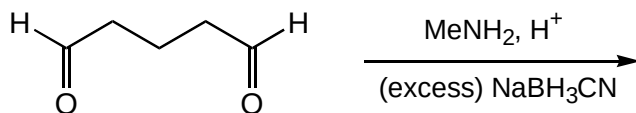


3. Provide the products of the following reactions:

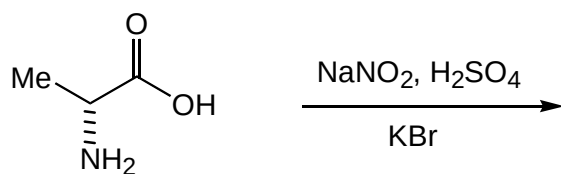


4. Provide the products of the following reactions:

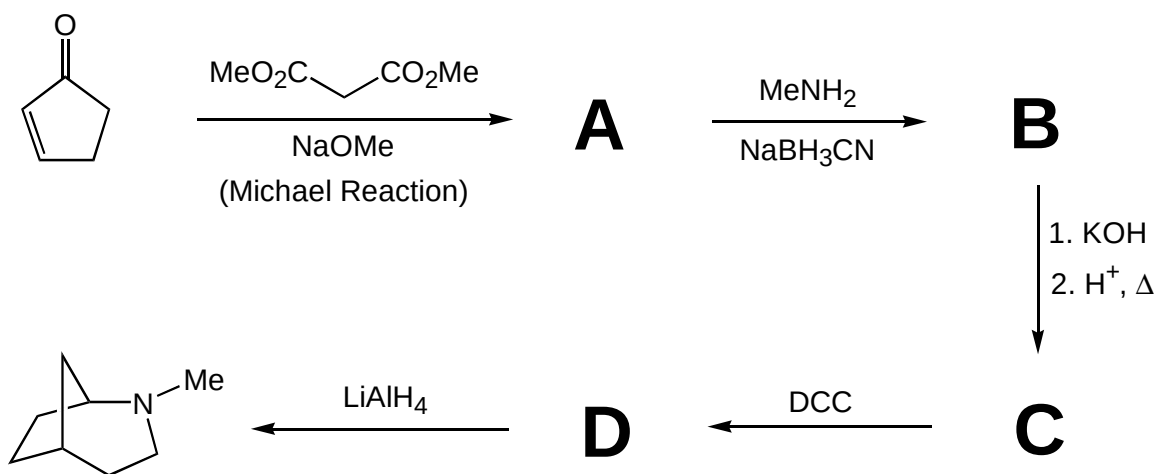
a.



b.



5. Identify the intermediates in the following synthetic sequence:



Practice the mechanisms of the reactions in this problem set.