Condensation Reactions, Problem Set #8
Due in lecture on 4/16/2002
No late homeworks accepted
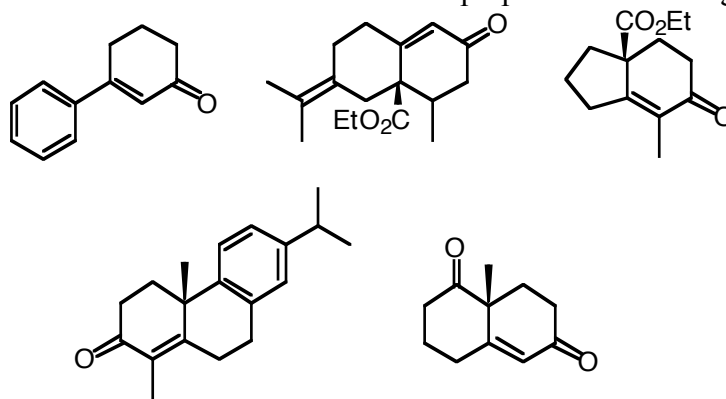Only the additional problems need to be turned in.

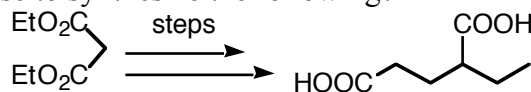❖ Read Chapter 23

Excercises:

❖ McMurry 5th Ed Problems: 23.25, 23.26, 23.34, 23.37, 23.38, 23.40, 23.41, 23.44, 23.47, 23.48, 23.49.
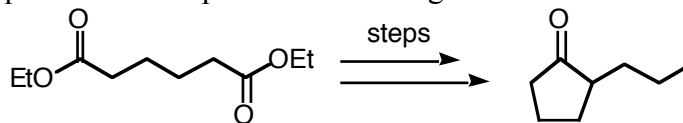
❖ Additional Problems:
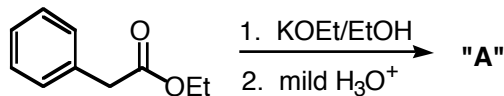1. Show how you would use a Robinson Annelation to prepare the following.

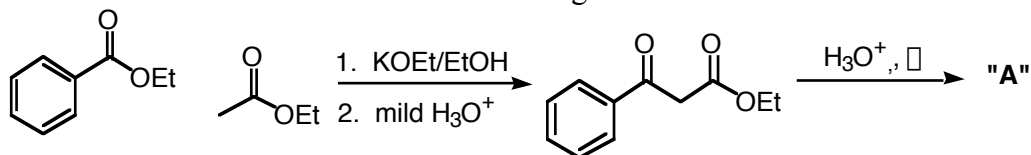2. What steps would you use to synthesize the following?

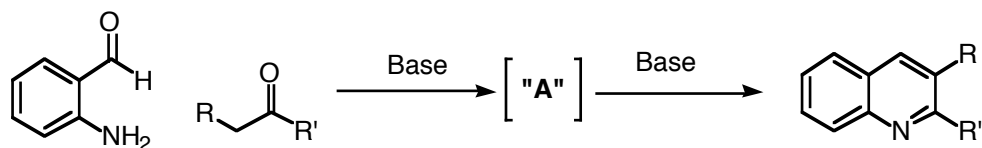3. Show the steps required to accomplish the following transformation.

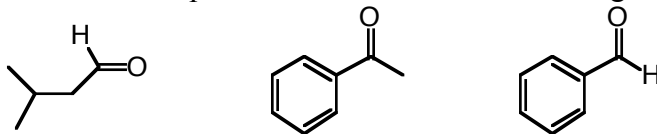4. What is "A"? Write a stepwise mechanism for its formation.

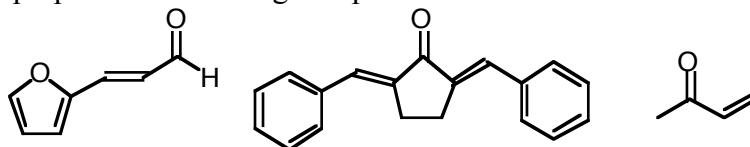5. What is "A"? Write a mechanism for the following reactions.

6. . What is "A"? Write a mechanism for its formation and the formation of the quinoline.
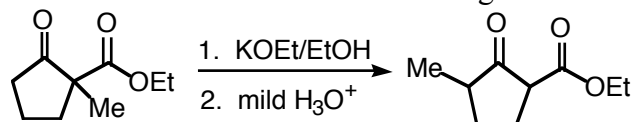
7. Show the Aldol self-condensation products for each of the following molecules?

8. How would you prepare the following compounds from a mixed Aldol?

9. Write a stepwise mechanism that accounts for the following transformation.

1. KOEt/EtOH
2. mild H_3O^+

10. What is "A"? Write a mechanism for each of the reactions.

pH 4.5

H_3O^+,

"A"