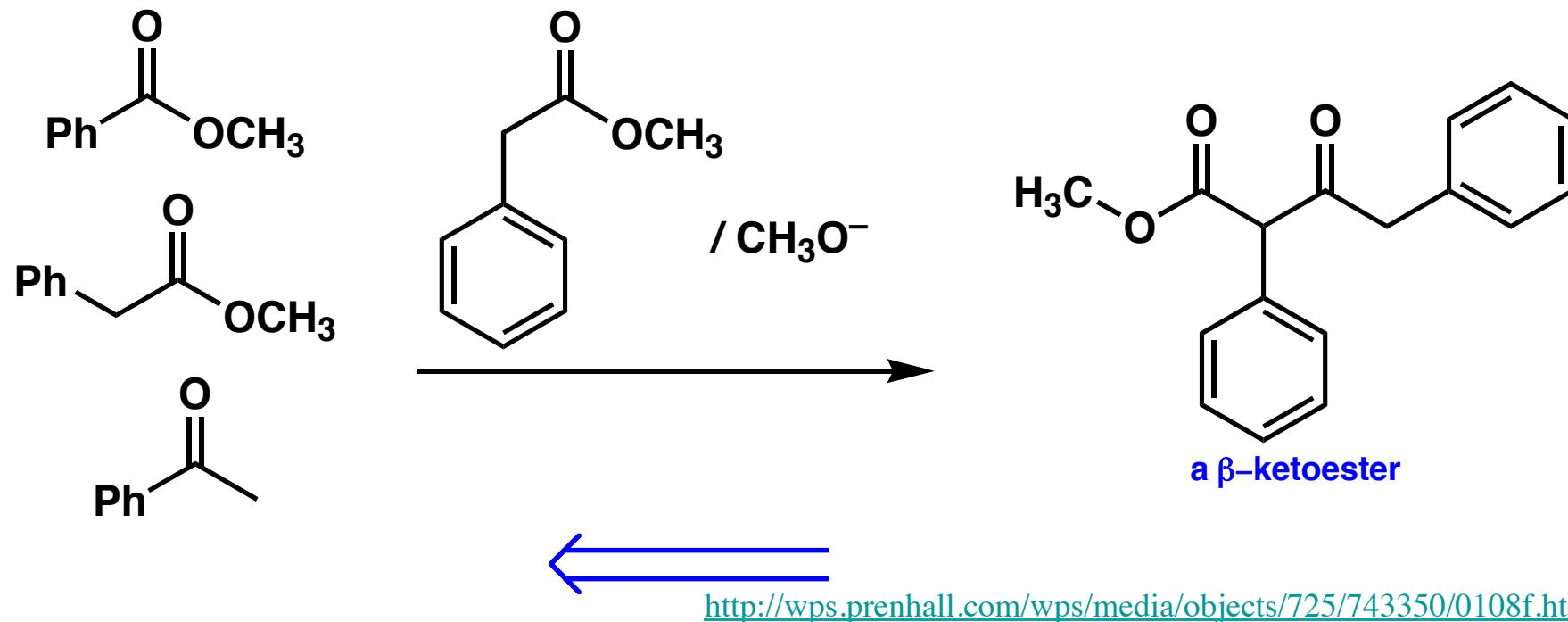


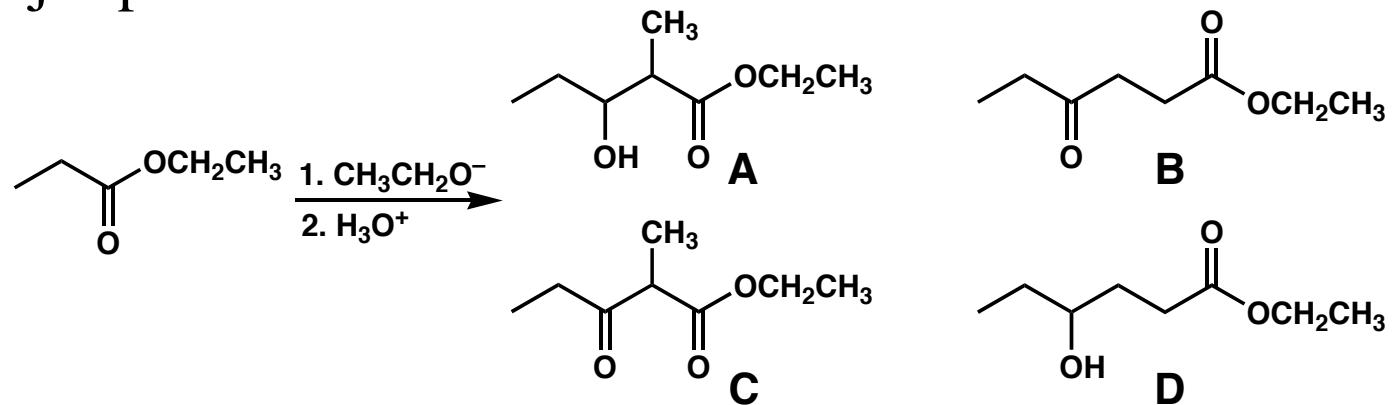
Summary

Claisen Reactions - Synthesis

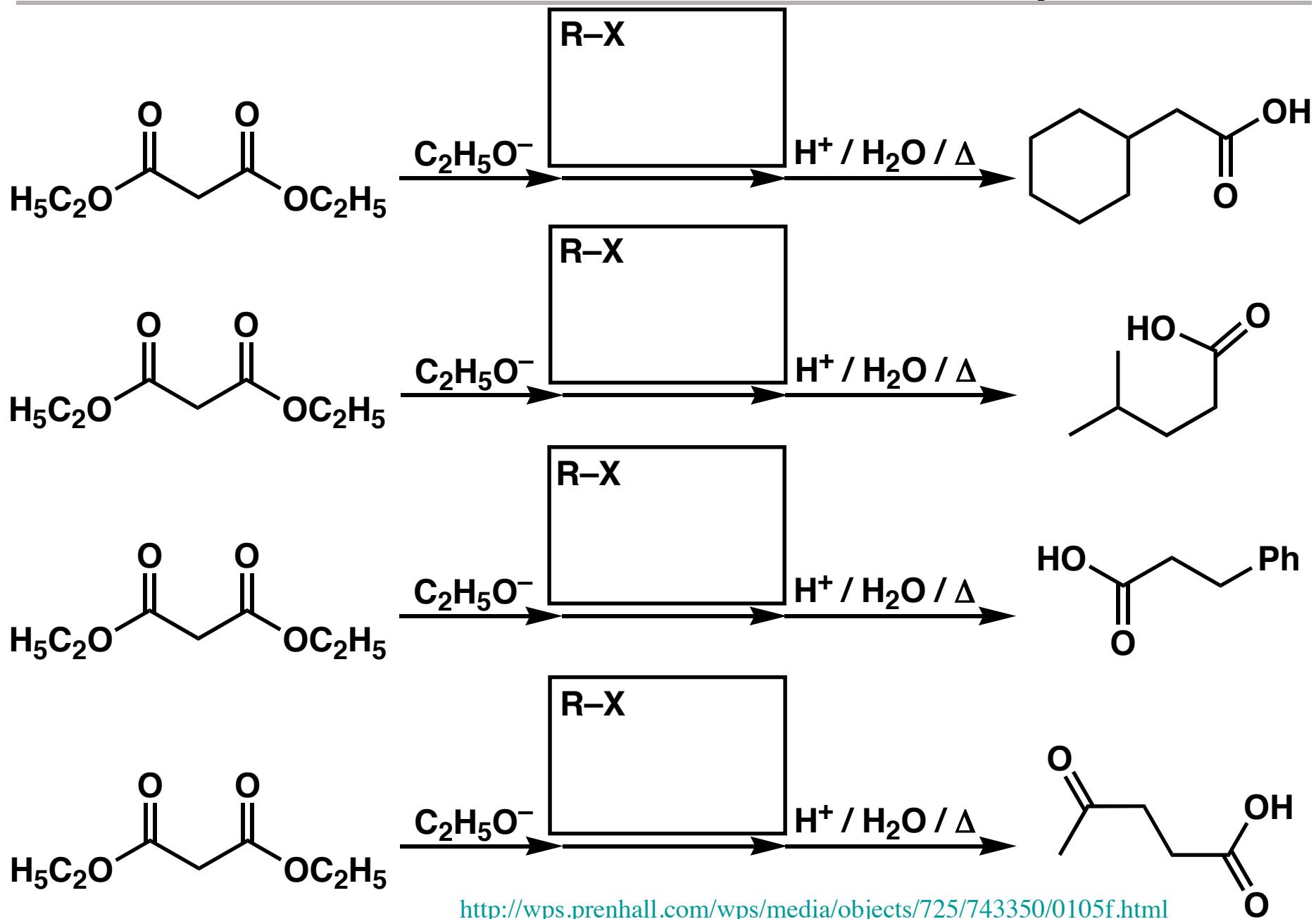


What is the major product of this reaction?

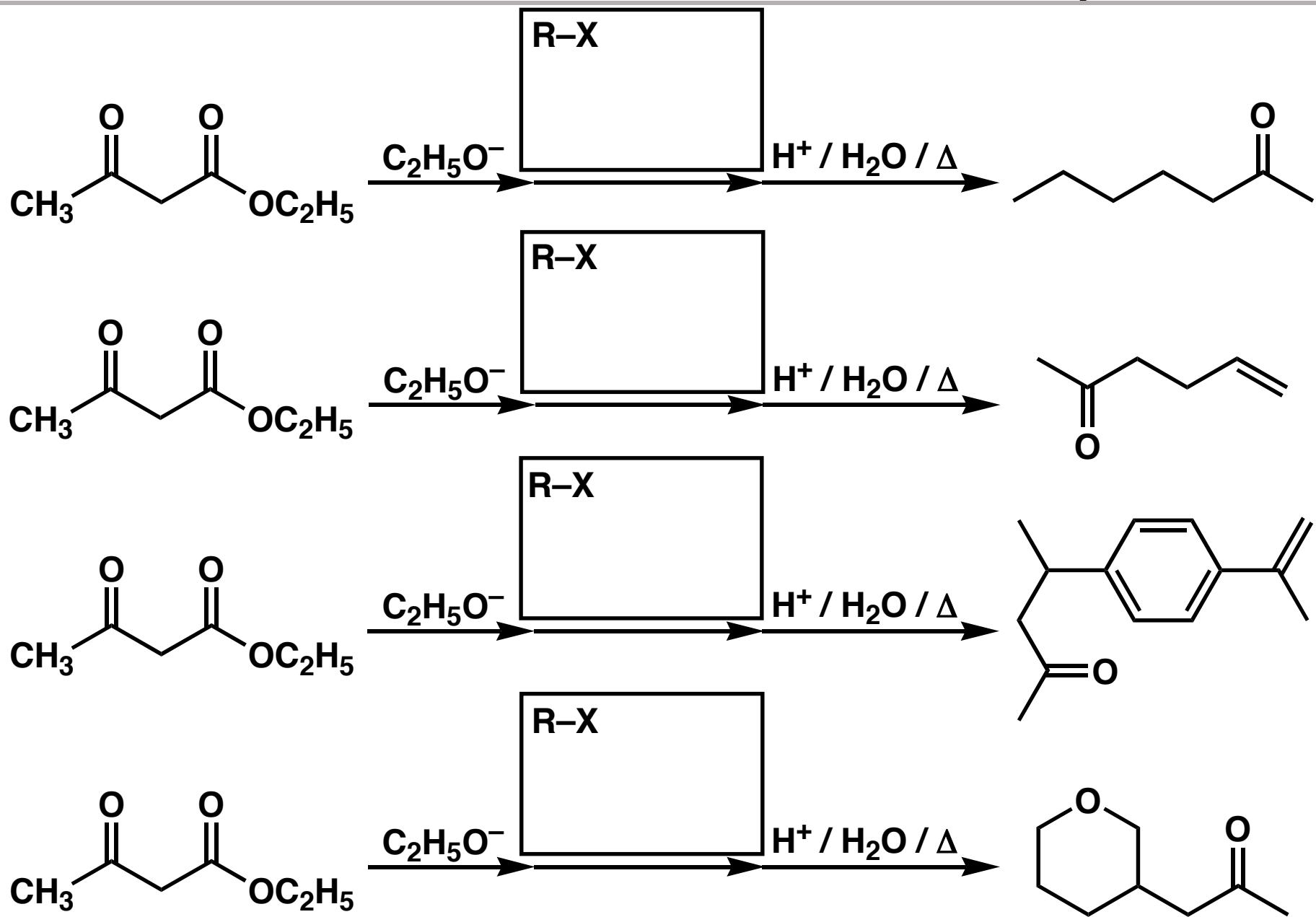
- A
- B
- C
- D



Discussion Problems: Malonic Ester Synthesis



Discussion Problems: Acetoacetic Ester Synthesis



Discussion Problem:

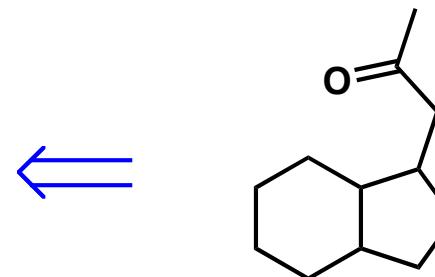
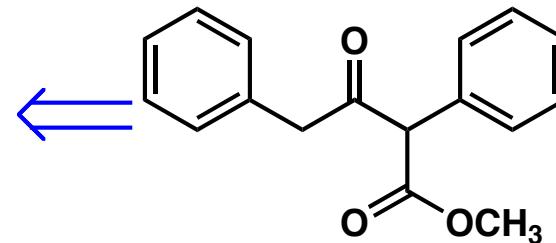
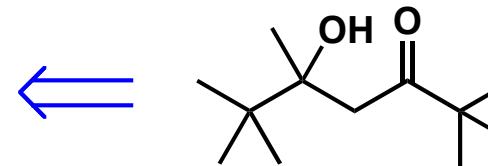
Examples of Retrosynthesis



Click on the reaction that was used to make the molecule shown below.

Retrosynthesis

- aldol addition
- Claisen condensation
- ketone + ester condensation
- Robinson annulation
- malonic ester synthesis
- acetoacetic ester synthesis
- aldol condensation



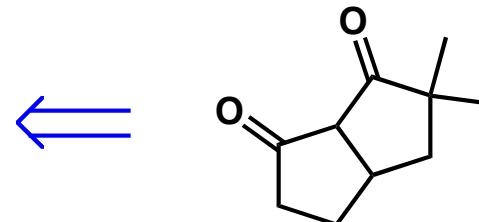
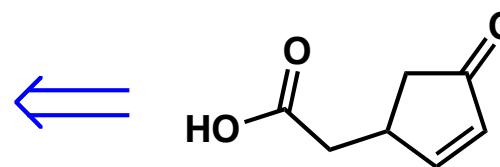
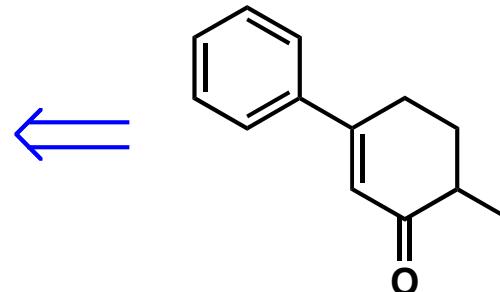
Discussion Problems: More Retrosynthesis Examples



Click on the reaction that was used to make the molecule shown below.

Retrosynthesis

- aldol addition
- Claisen condensation
- ketone + ester condensation
- Robinson annulation
- malonic ester synthesis
- acetoacetic ester synthesis
- aldol condensation

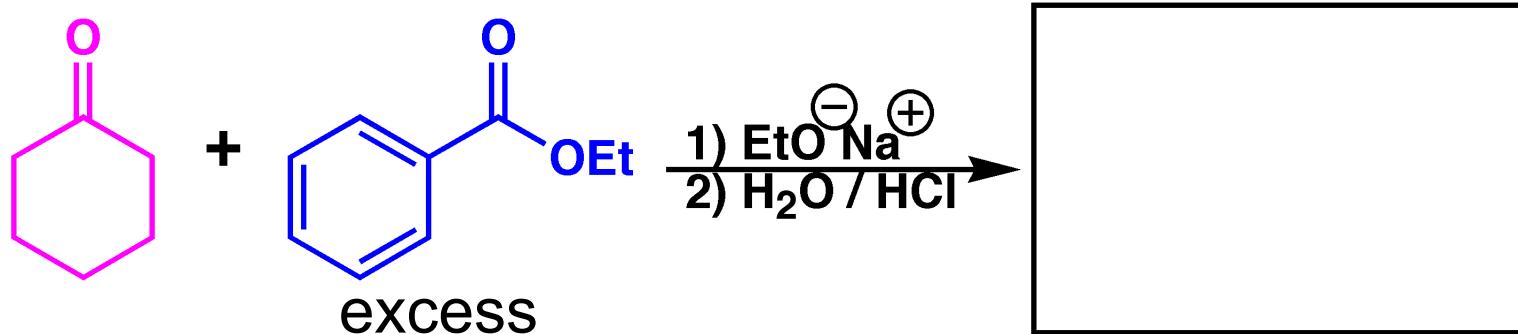


Discussion Problems

(Predict the Products)

In these reactions the electrophile is in excess to favor crossed product formation.

1) Condensation between a ketone and an ester



2) Intramolecular Claisen condensation of a dicarboxylic ester

