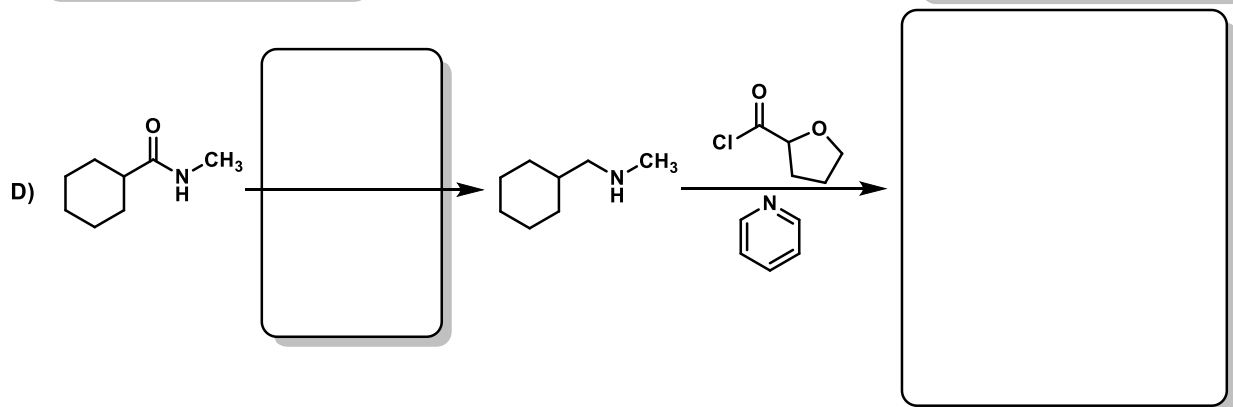
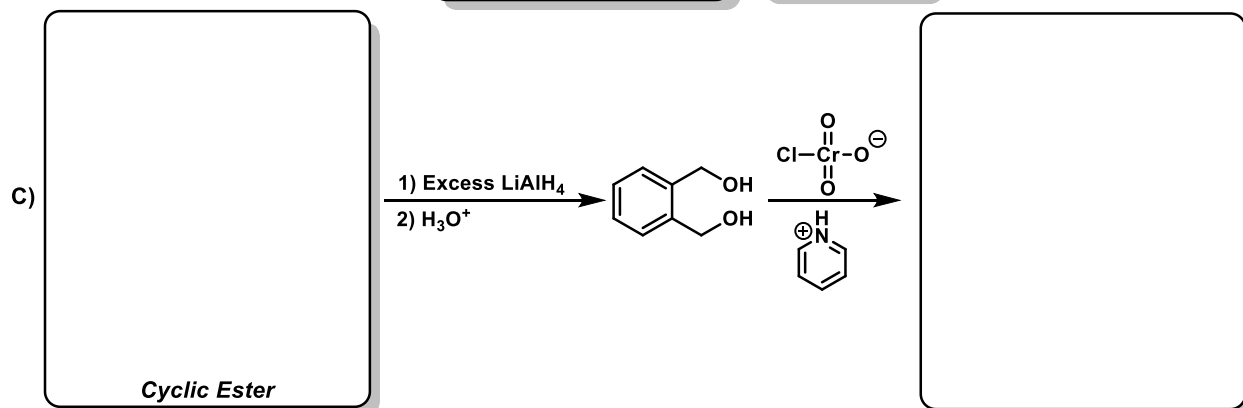
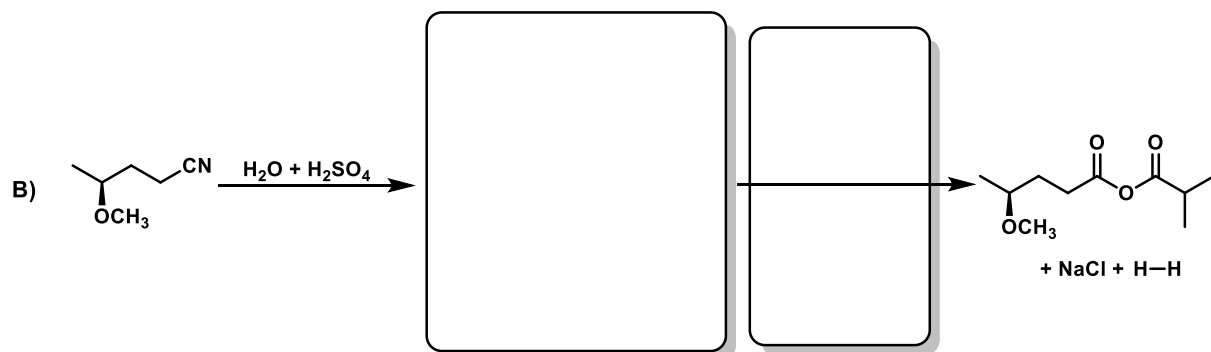
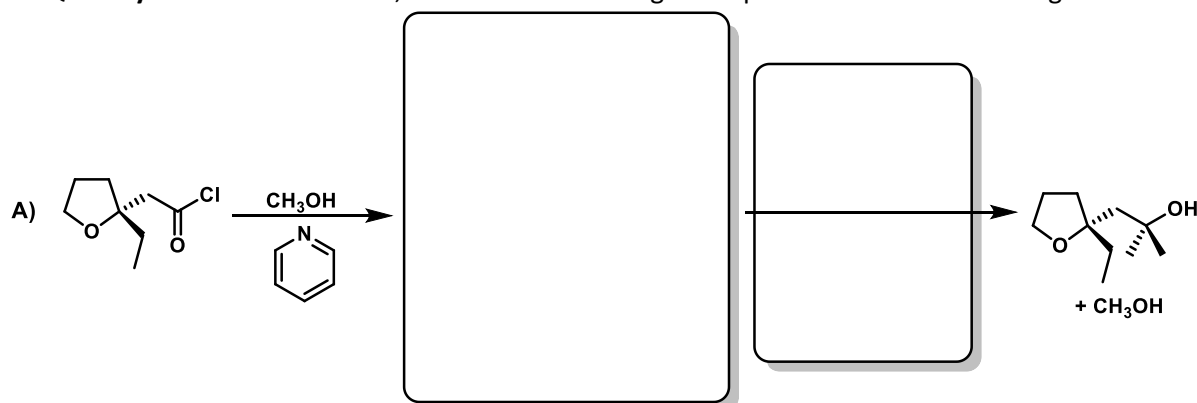
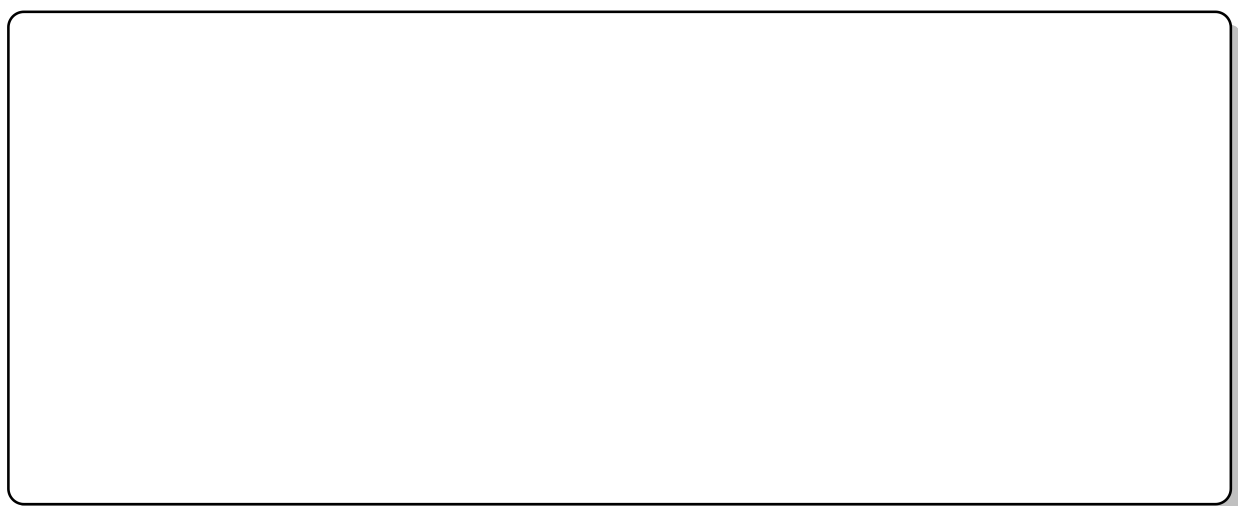
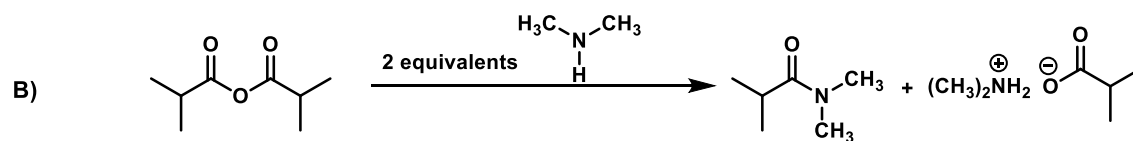
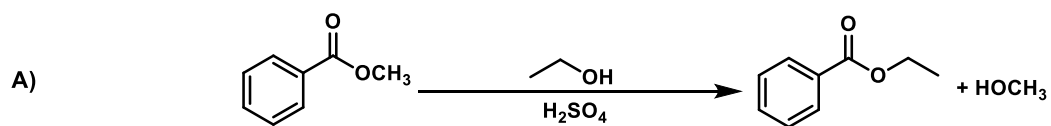


1. **Quick Synthesis.** In the boxes, fill in the correct reagent or product for the reactions given.



2. **Mechanisms.** Provide a step-wise mechanism for the following transformations.



[illegible]