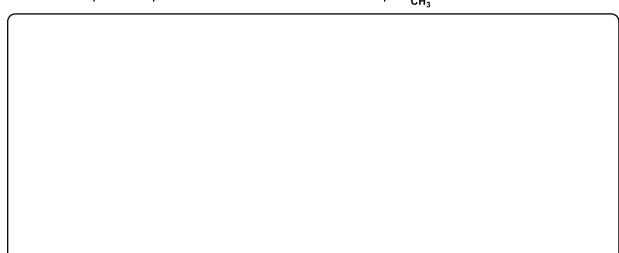
1. **Quick Synthesis.** In the boxes, fill in the correct reagent or product for the reactions given.

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



3. **Guided Syntheses.** Fill in the boxes with the correct intermediates / reagents / products for the following syntheses.

