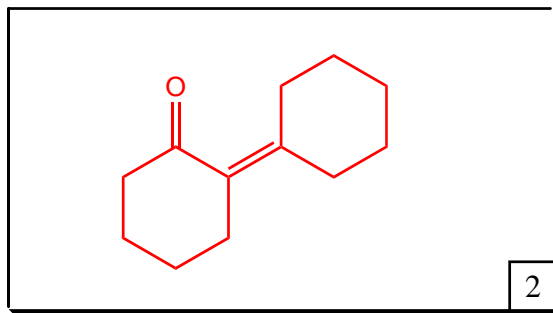
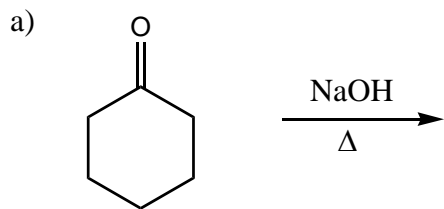
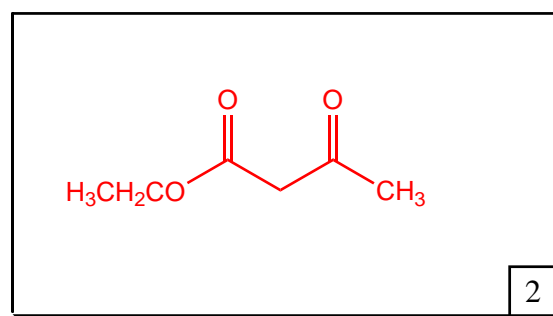
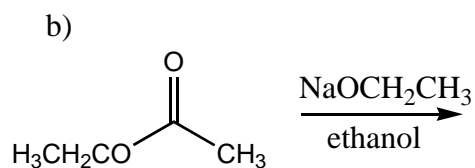


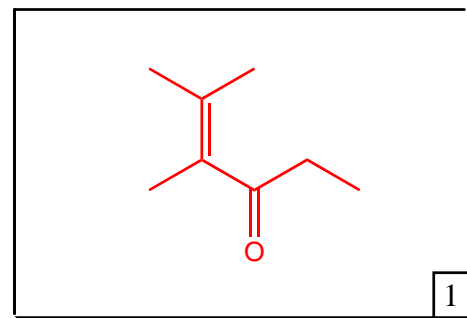
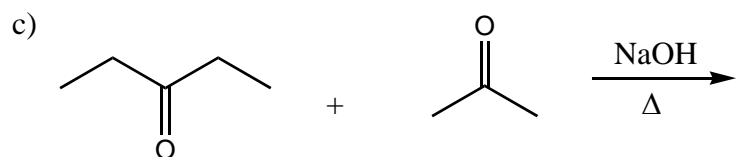
1. Give the condensation products (aldol, Claisen, Dieckmann) of the following molecules (Hint: it will help to think of this mechanistically):



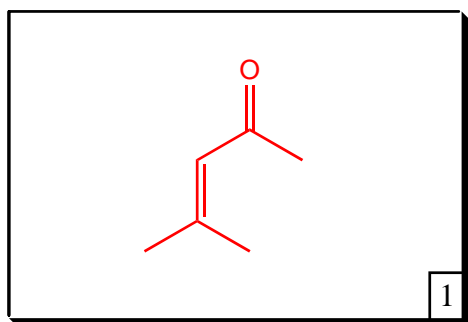
2



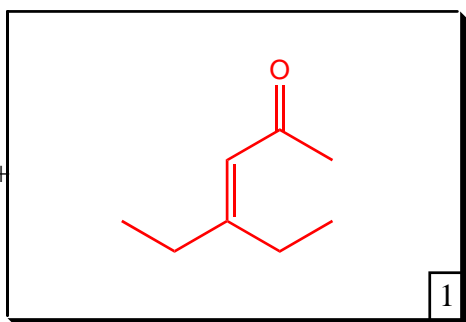
2



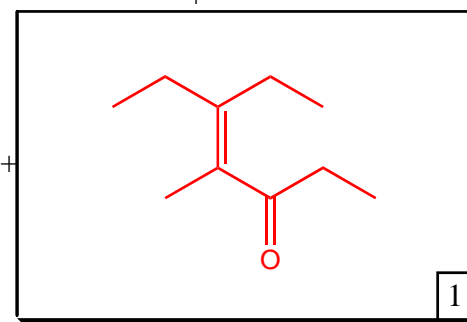
1



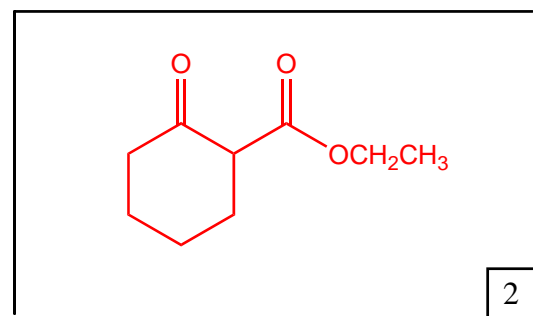
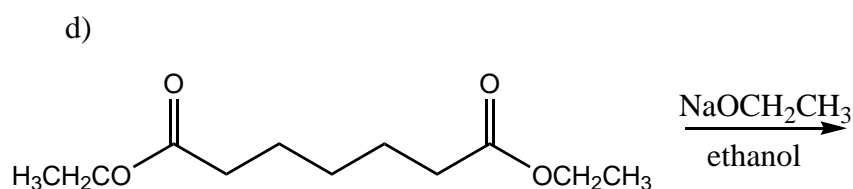
1



1

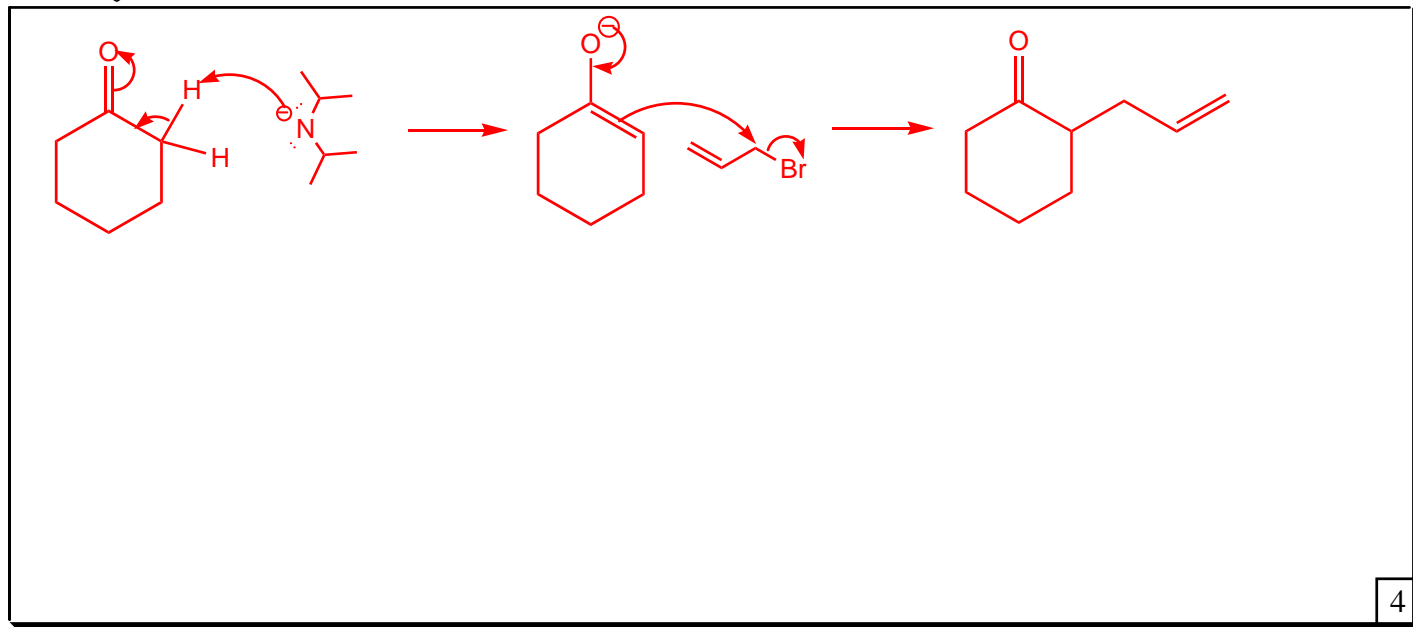
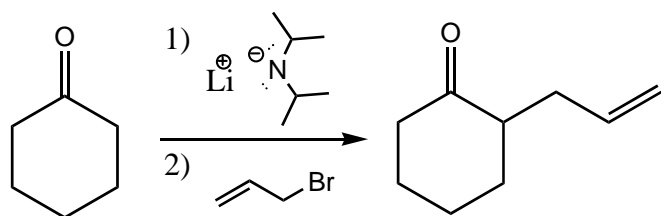


1



2

2. Draw the mechanism for the following reaction:



4

3. Fill in the missing steps in the following synthesis

