

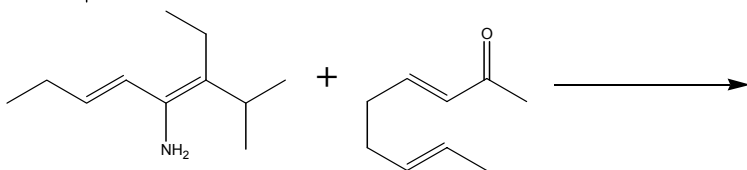
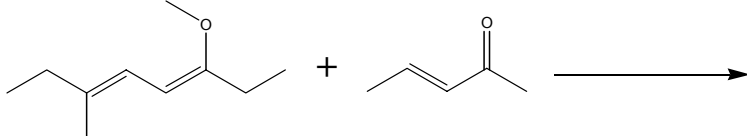
# Organic Chemistry: CHEM 231B

Spring 2002 - Whittier College

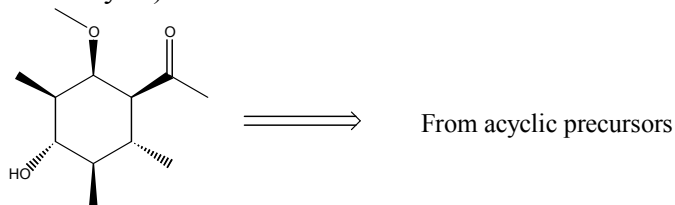
## Problem Set #4

September 8, 2003

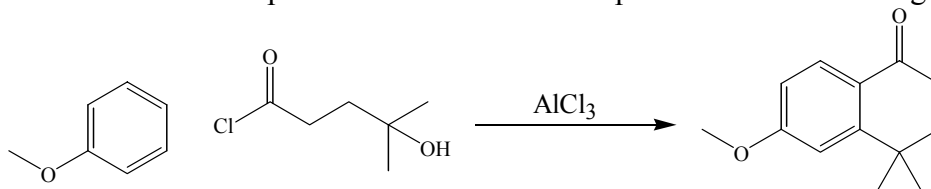
1. Draw the molecular orbitals for hexatriene. Show your work.
2. Predict products for the following reactions. Include proper regio- and stereochemistry, where appropriate.



3. Provide a synthesis for the following molecule (It will be beneficial if you plan your synthesis using a retrosynthetic analysis):



4. Provide a mechanism that explains the formation of the product in the following reaction:



5. Predict products for the following reactions:

