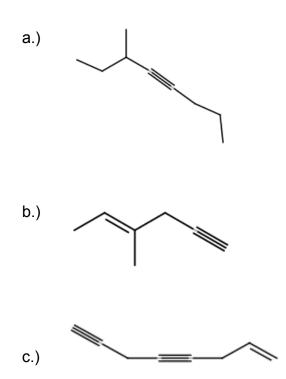
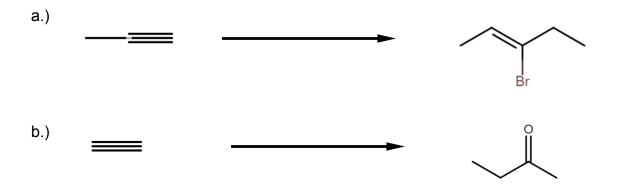


## Alkynes & Intro to Synthesis

1. Give the IUPAC name for the following compounds:

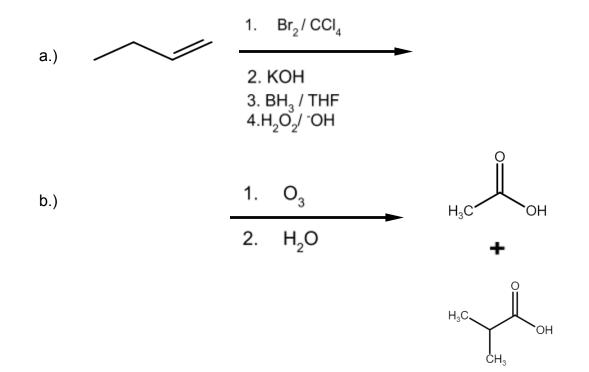


2. Propose reagents that would give the following products:



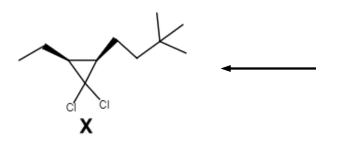
CHEM 201 Worksheet





3. Predict what the following reactants or products are based on the reagents used:

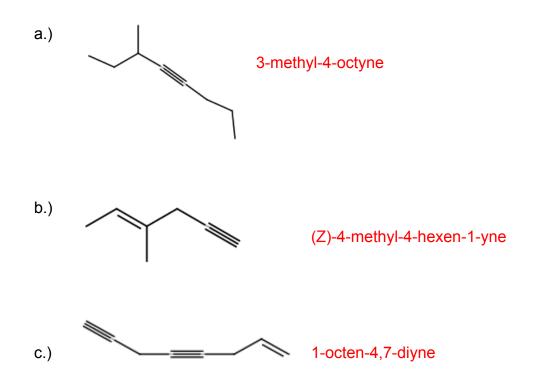
4. Use retrosynthesis to design a step-by-step synthetic pathway to produce compound **X** from 1-butyne:



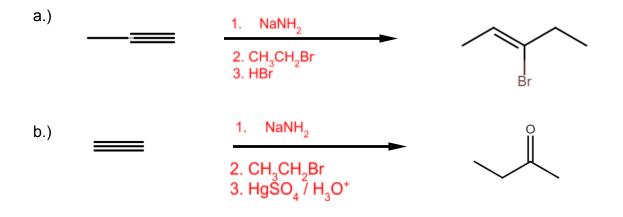


## Alkynes & Intro to Synthesis Solutions

1. Give the IUPAC name for the following compounds:



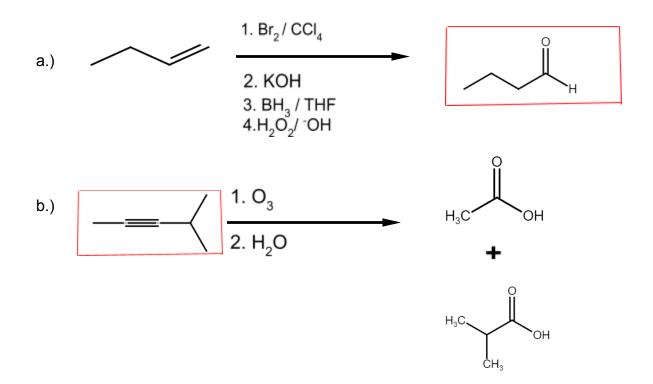
2. Propose reagents that would give the following products:



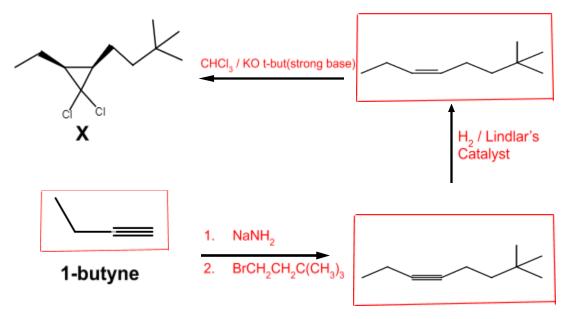
CHEM 201 Worksheet



3. Predict what the following reactants or products are based on the reagents used:



4. Use retrosynthesis to design a step-by-step synthetic pathway to produce compound **X** from 1-butyne:



CHEM 201 Worksheet