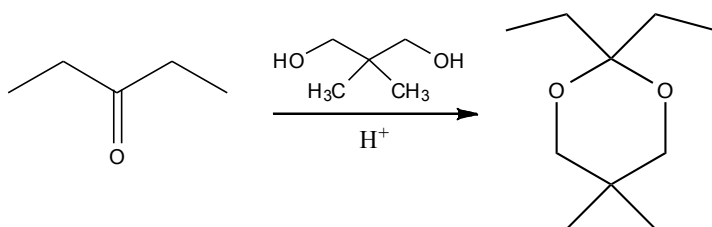
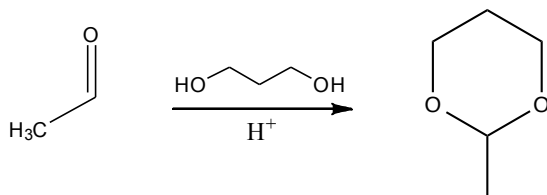
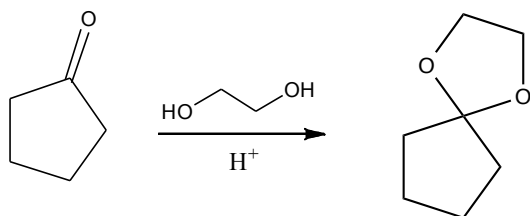
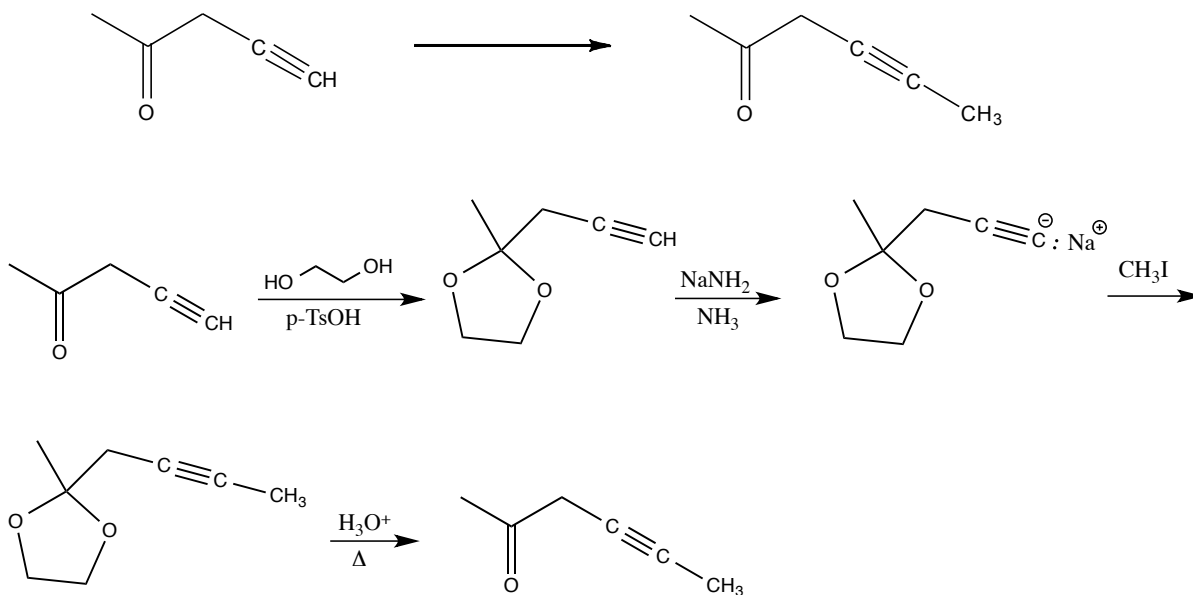


Synthesis of Acetals and use as Protecting Groups - **Answers**

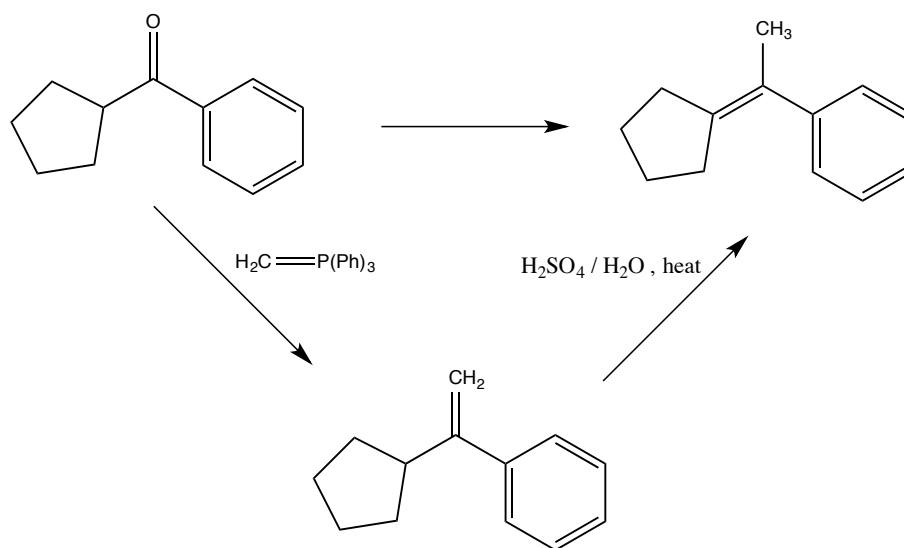
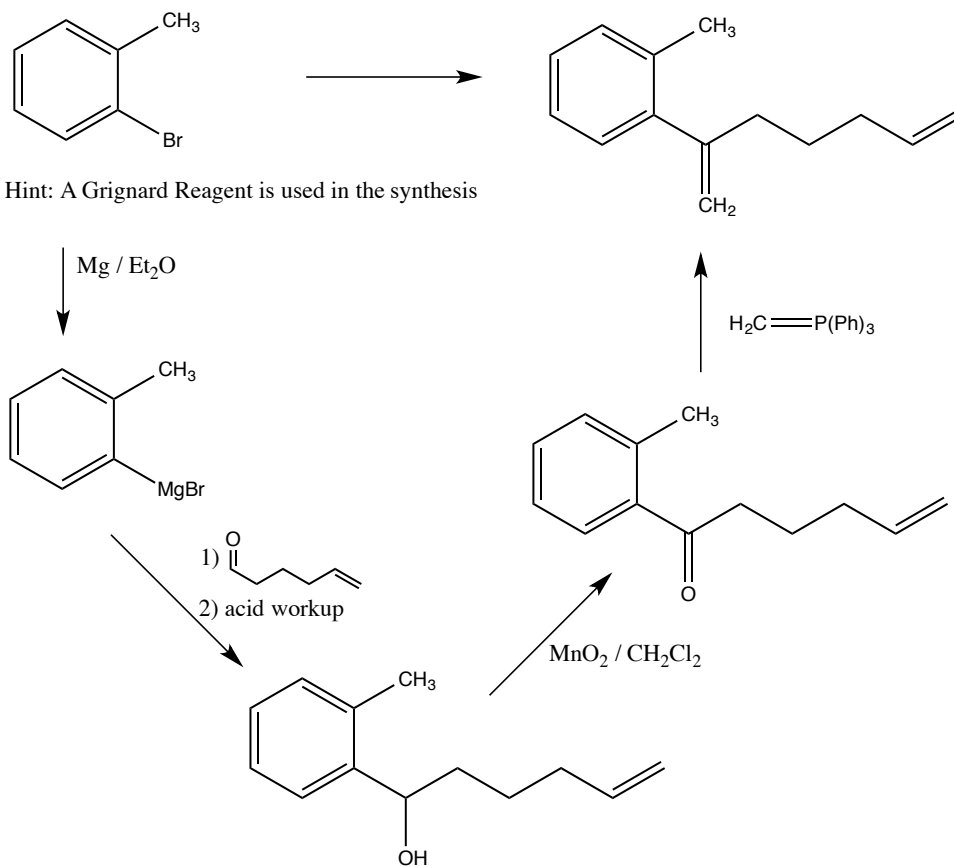
1. Draw the structure of the acetals formed from the following combinations



2. Provide the necessary reagents to synthesize the compound shown on the right from the given starting material.



3. Describe a short sequence of reactions to synthesize the compounds shown from the starting materials provided



The H_2SO_4 step forms a carbocation with rearrangement to produce an alkene with higher stability.