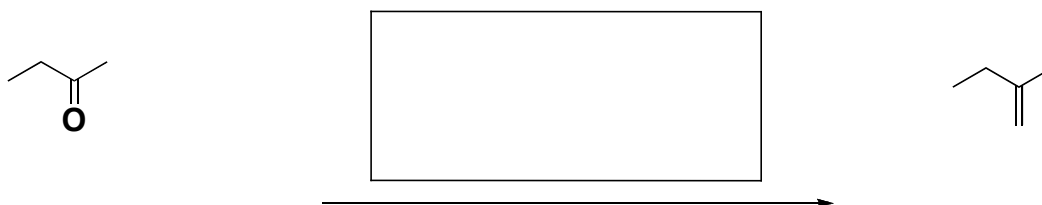
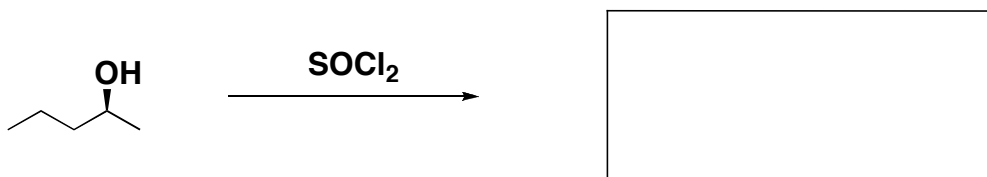
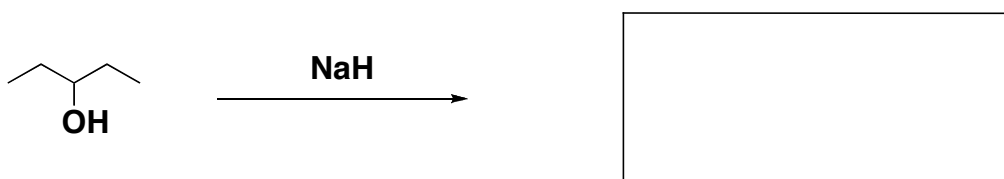
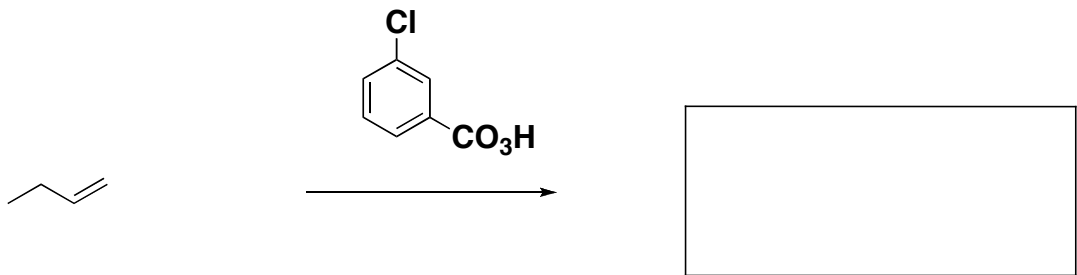
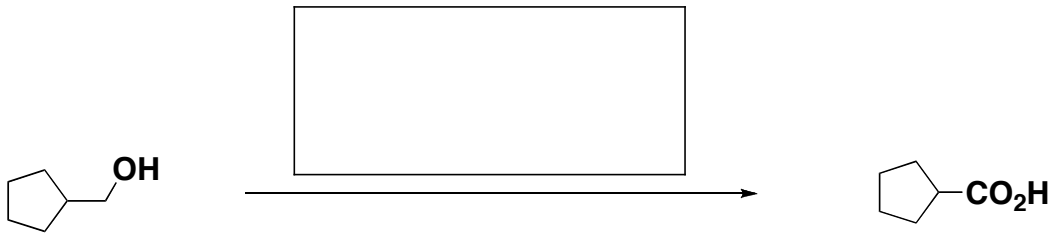
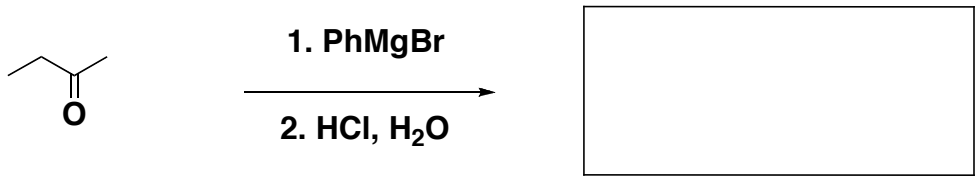


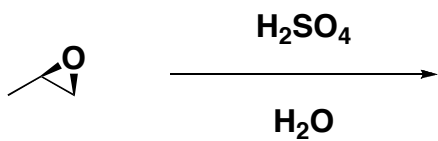
Practice Midterm #2  
Chem 30B  
Dr. Karim

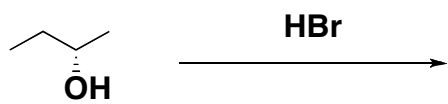
1. For each of the following reactions, fill in the missing reagents and/or products.  
Be sure to indicate stereochemistry where necessary.

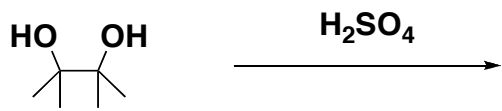




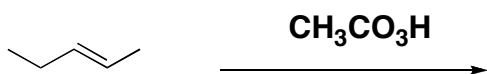
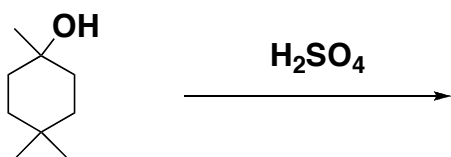
2. For each of the following reactions, draw the product(s). Also, provide a **detailed** mechanism that rationalizes the formation of these product(s).

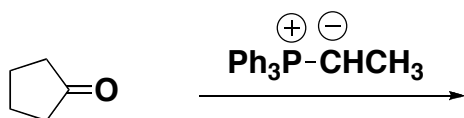
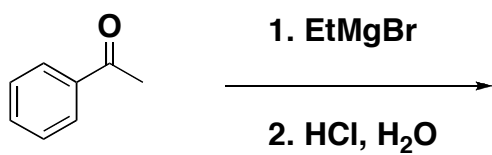
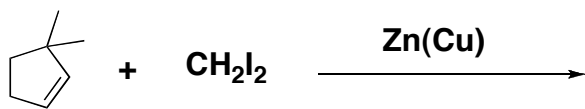






3. Draw all of the possible products formed in the following reactions.





4. Provide a synthetic route to the desired product in the number of steps indicated. It is not necessary to show the mechanisms for any of the steps. Draw each intermediate product along the synthetic route.

