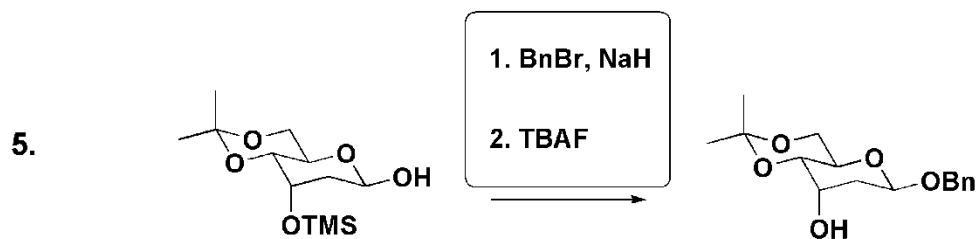
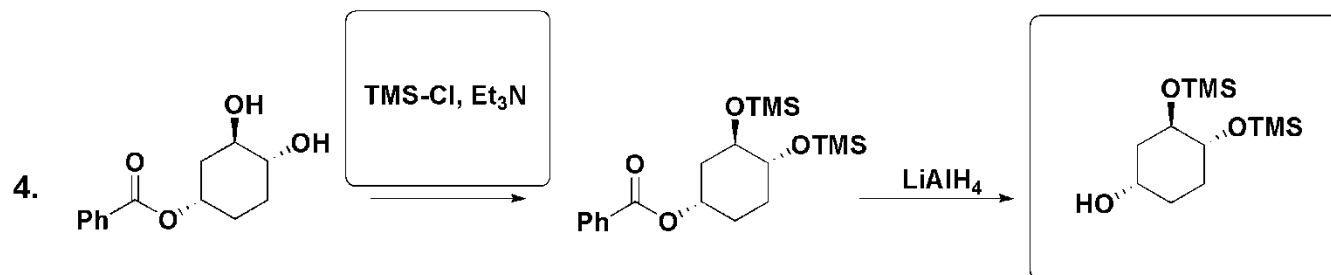
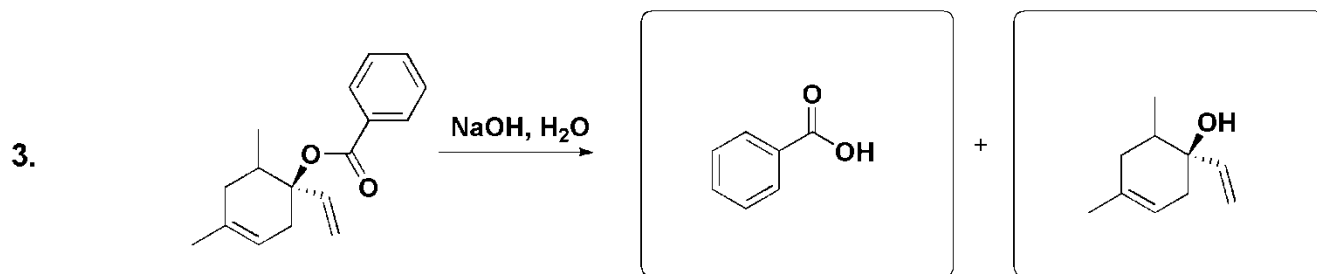
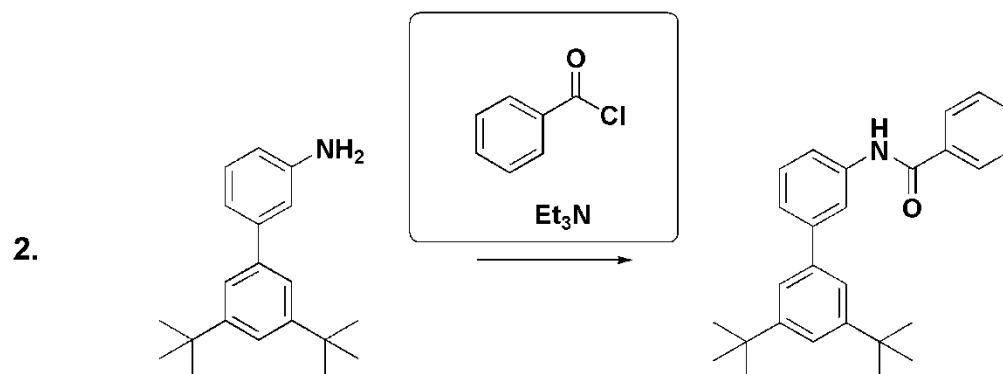
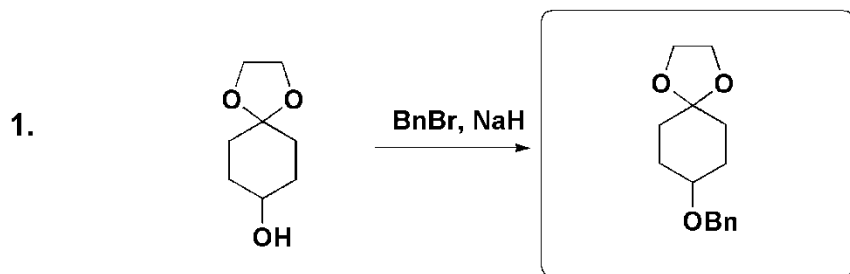
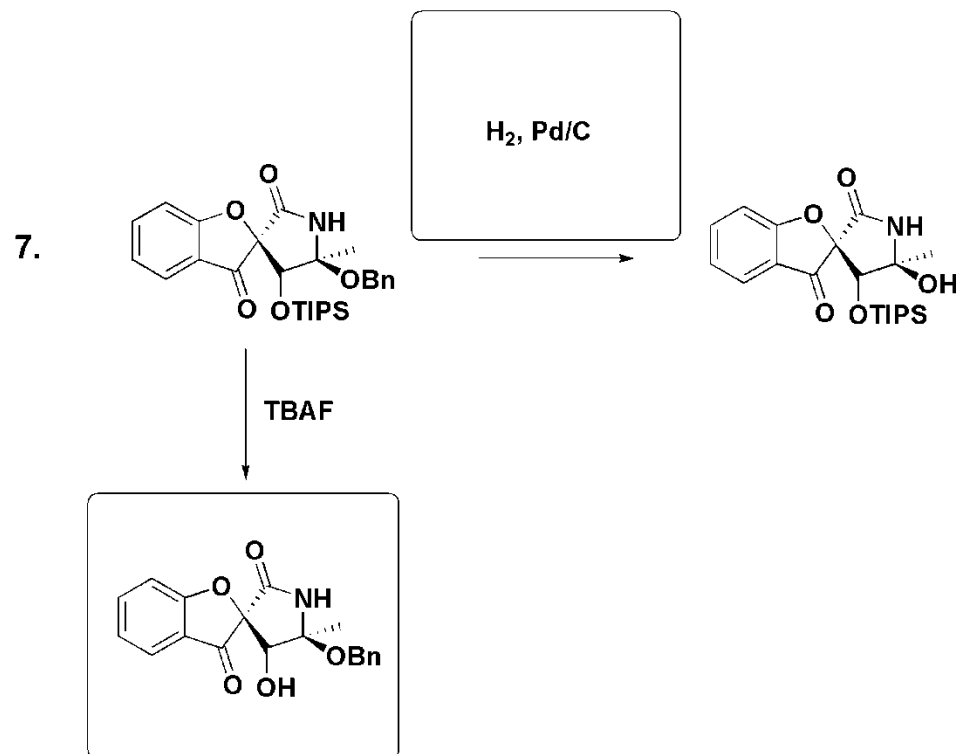
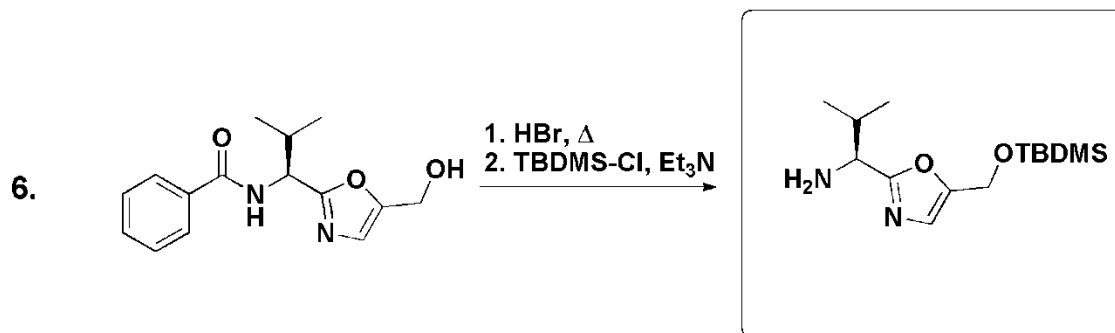


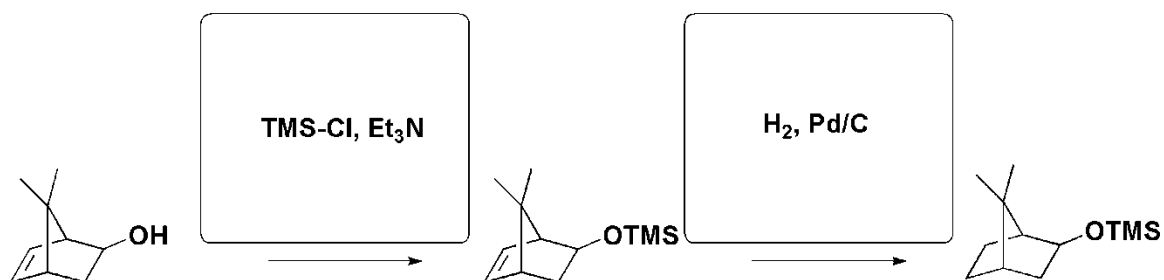
PS #2 Practice Questions – Installing and Cleaving Silyl Ethers, Benzyl Ethers and Amides

In the following problems, TMS = trimethylsilyl, TBDMS = *tert*-butyldimethylsilyl, TIPS = triisopropylsilyl and Bn = CH₂Ph.





8. Consider the following reactions where **R** = a protecting group of your choice. The double bond needs to be reduced but the alcohol must remain protected. Fill in the necessary reaction conditions. Which protecting group should you use? Why?



Best choice is to protect the alcohol with a silyl group. If the alcohol is protected with a benzyl group the benzyl group will be cleaved when the alkene is reduced.