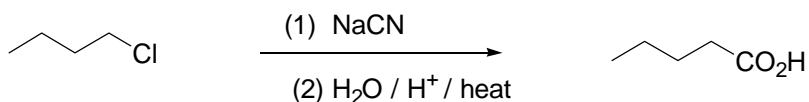
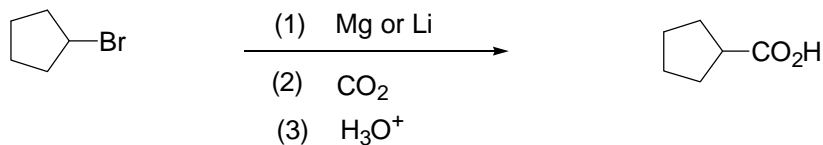
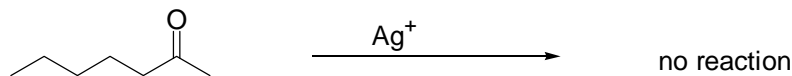
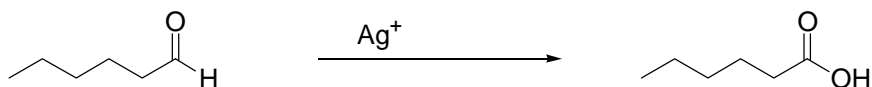
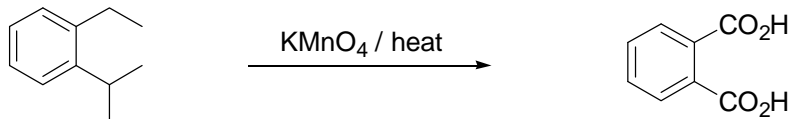
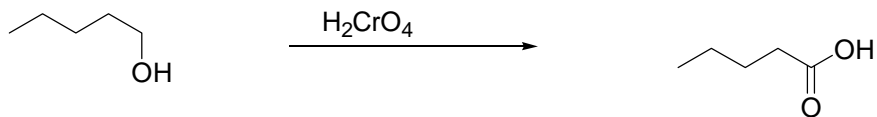
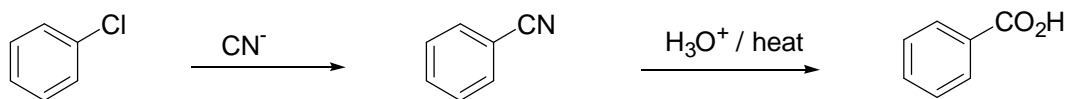


Carboxylic Acid Preparations - Practice

Complete the following reactions:



Which method, Grignard or nitrile, would you use to make benzoic acid from chlorobenzene? Why? Write equations.



The first step is a $\text{S}_{\text{N}}2$ reaction and will work with methyl or primary alkyl halides but not with aryl halides. So, the nitrile method won't work here. The Grignard method works with all alkyl or aryl halides. So, the following will work.

