

**Chem 345 – Organic Reactions**

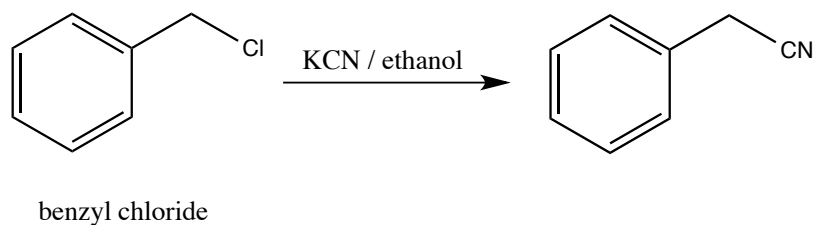
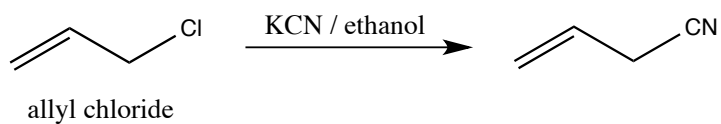
**Chapter 17**

Prepared by José Laboy, MS

[http: www.chem.wisc.edu/areas /clc](http://www.chem.wisc.edu/areas/clc) (Resource page)

**Benzylic and Allylic Reactions #4: Substitution Reactions**

Reactions:



In both of these instances the substitution reactions ( $S_N2$ ) occur with ease due to the overlap stabilization of the intermediate by the  $\pi$ -electrons of the nearby  $sp^2$ -hybridized carbon atoms.