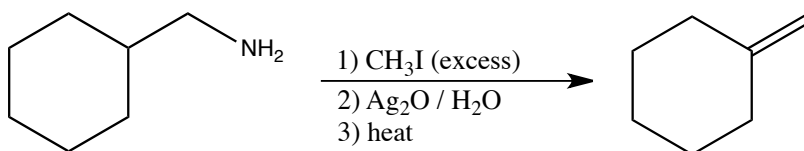


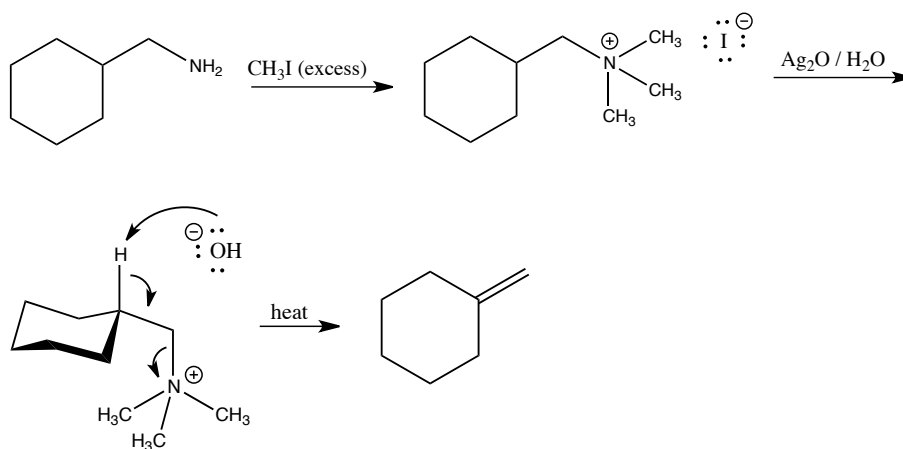
**Chem 345 – Organic Reactions Chapter 23**  
Prepared by José Laboy, MS  
[http: www.chem.wisc.edu/areas/clc](http://www.chem.wisc.edu/areas/clc) (Resource page)

Hofmann Elimination

Reaction:



Mechanism:



E2

This reaction produces an alkene through an E2 mechanism. It requires a  $\beta$ -hydrogen in an anti-coplanar arrangement. Because of this requirement the alkene formed may not necessarily be the most substituted. This is sometimes referred as the Hofmann Rule.

The Hofmann elimination was used, some time ago, to identify the position of an amine group.