## **Summary of Reactions (Chapter 6)**

Note: When ANY of these reactions form a new chiral center, a mixture of stereoisomers will be produced. The relationship among the stereoisomers and how many stereoisomers are formed depends on the structure of the starting material, the structure of the product, and mechanism of the reaction. Please see the lecture notes for more details on stereochemistry for each individual reaction. When a reaction forms more than one stereoisomer as a major products, all stereoisomers should be drawn explicitly.

Markevnikov (  $\frac{H_2O}{H_2SO_4}$  ) OH goes to more substituted side anti-markovnikov (  $\frac{i.)BH_2}{ii)H_2O_2}$  OH) OH goes to less substituted side