Homework/Problem Set #6  
Chapter 6: Nucleophilic Substitution Reaction

1) Write the following reactions and designate the nucleophile, substrate and leaving group in each reaction. **Clearly, if necessary, designate absolute stereochemistry to substrates and products and shortly discuss the stereochemical outcome for the reactions**

![Reactions 1](image)

2. Which compound would you expect to obtain from the following reactions? Define stereochemistry.

![Reactions 2](image)