Practice Problems on S_N1 , S_N2 , E1 & E2 - Answers

1. Describe the following chemical reactions as S_N1 , S_N2 , E1 & E_2 . Draw a curved arrow mechanism for each reaction.

2. For each of the chemical substitution reactions below identify the major products and whether the reaction is likely an S_N1 or S_N2 .

3. For each of the following compounds provide appropriate reactants and solvent systems to synthesize them by a substitution reaction. Show which type of substitution: S_N1 or S_N2 .

Br
$$NaCN$$
 $S_N 2$ $NaCN$ $S_N 1$ $S_N 2$ $S_N 3$ $S_N 3$ $S_N 4$ $S_N 5$ $S_N 5$