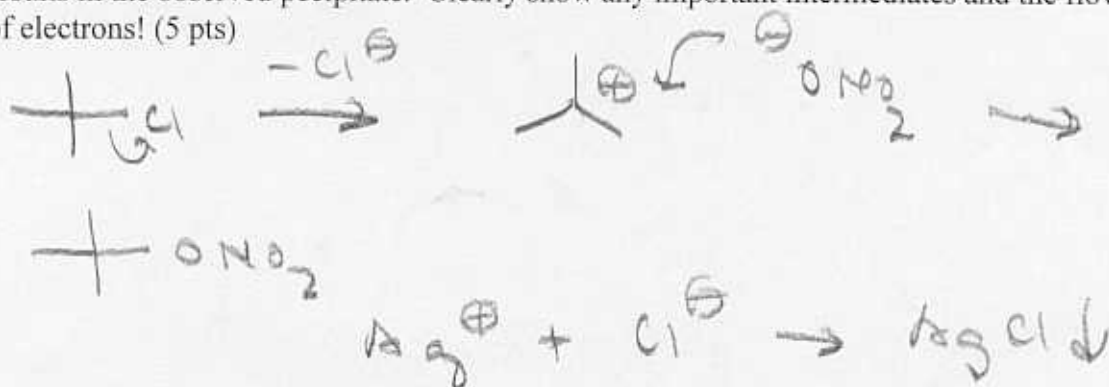


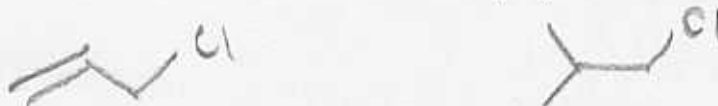
1. Propose a reaction mechanism and product for the reaction of 2-chloro-2-methylpropane with the nitrate ion as the nucleophile. In addition, show the reaction that results in the observed precipitate. Clearly show any important intermediates and the flow of electrons! (5 pts)



2. Circle any compounds that you do NOT expect to produce a precipitate with acetone/NaI (4 pts)



3. Show valid structural formulas for 3-chloro-1-propene and 1-chloro-2-methylpropane! (4 pts)



4. Which compound is MORE soluble in water, silver nitrate or silver chloride? (2 pts)

silver nitrate