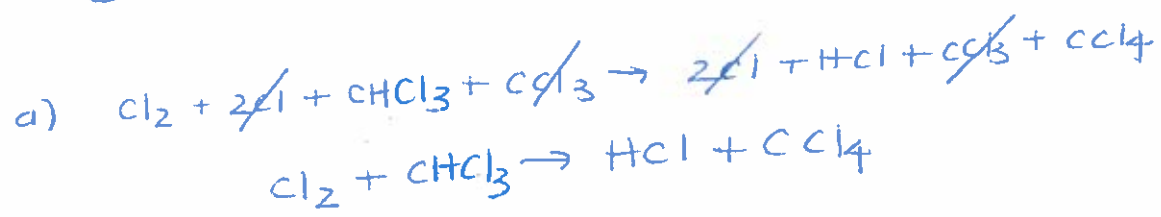
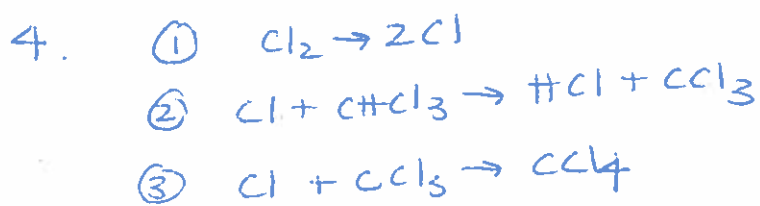
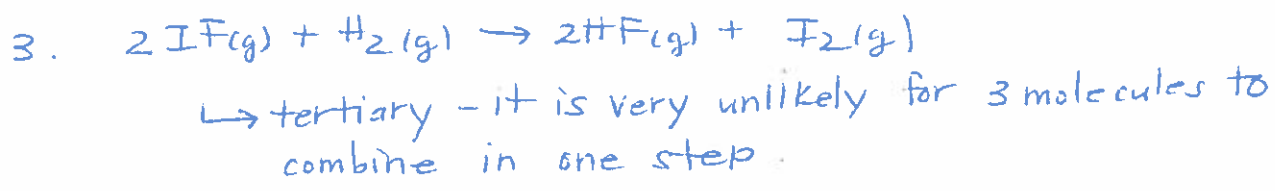
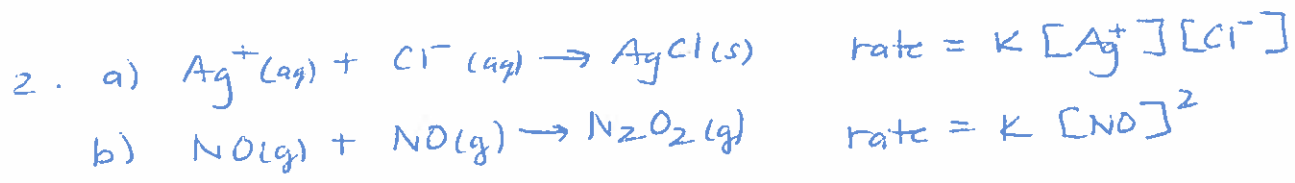


## Reaction Mechanisms Practice .

- a) Elementary Step - the individual steps in a multistep reaction  
b) Reaction Mechanism - the series of elementary steps by which a rxn takes place.



b) catalyst has to be present at the beginning of the reaction and at the end  
... no

c)  $2\text{Cl}$ ,  $\text{CCl}_3$  are intermediates because they are produced and then consumed  
↳ not in the overall reaction equation

d)  $r = k [\text{CHCl}_3]$       step #2 is the only step with  $\text{CHCl}_3$  in it.