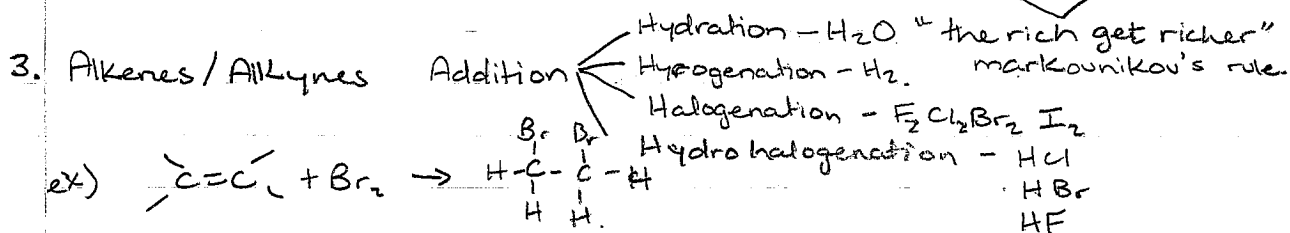
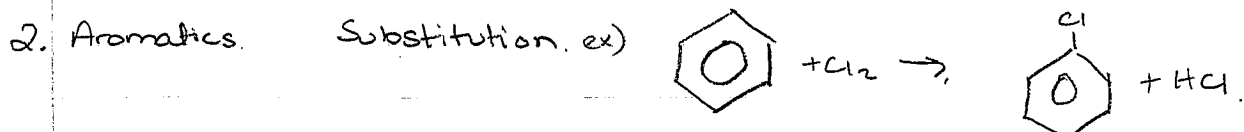
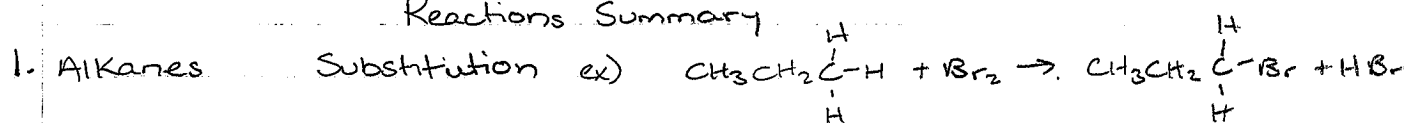
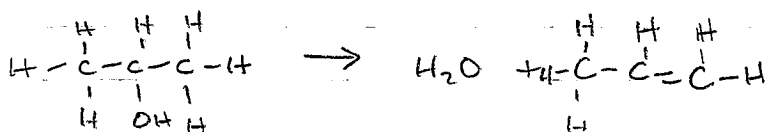


Reactions Summary



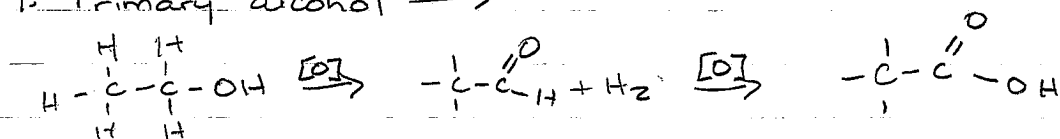
Elimination

4. Dehydration → Remove H₂O from an alcohol to produce Alkene.



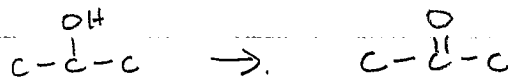
5. Oxidation - Make another bond to oxygen, reduce bonds to it.

1. Primary alcohol $\xrightarrow{[\text{O}]}$



ethan-1-ol → ethanal → ethanoic acid.

2. Secondary Alcohol → Ketone.



6. Hydrogenation → add H₂ to turn an aldehyde into alcohol.

7. Condensation or Esterification.

alcohol + carboxylic acid → ester + water.

8. Hydrolysis → ester turns back into alcohol and acid.

Ester + H₂O → alcohol + carboxylic acid.