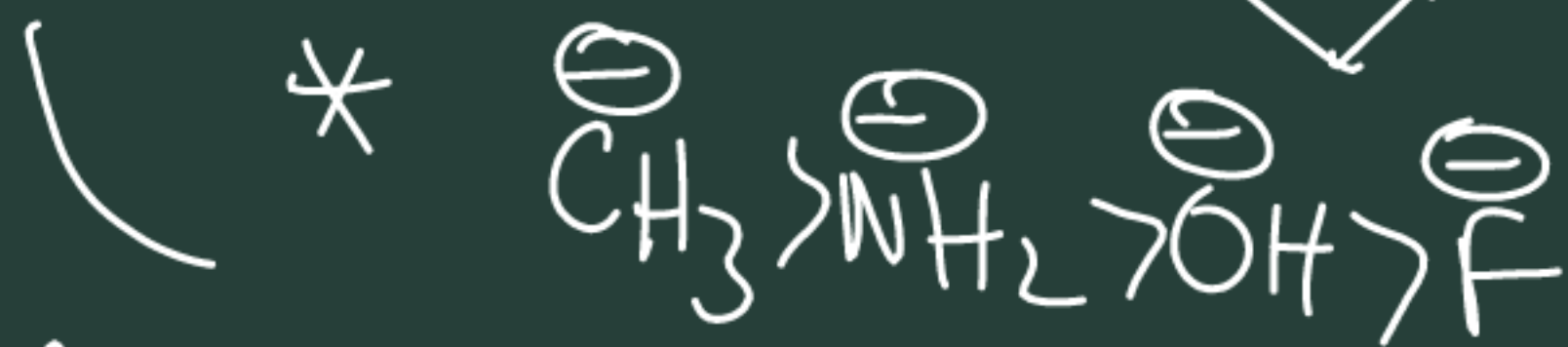
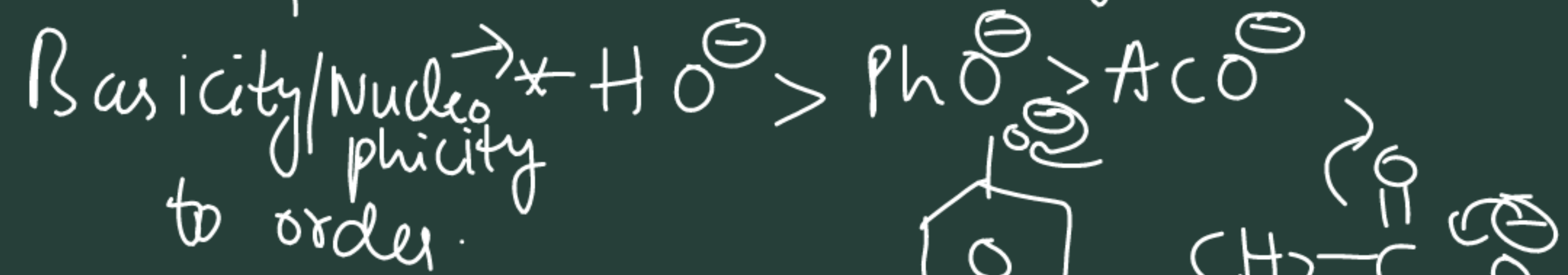


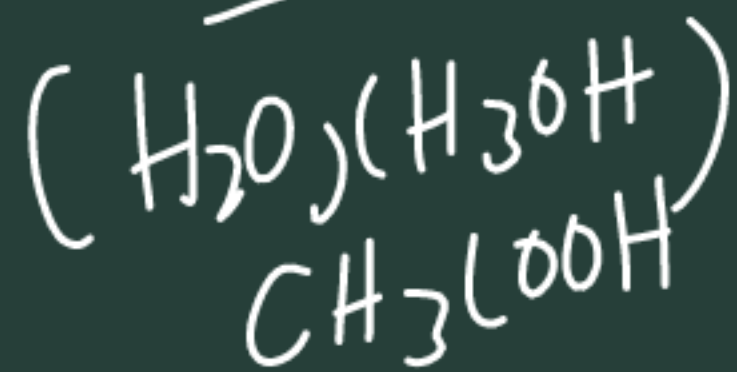
II Effect of Nucleophile (Nucleophilic Strength)

1) If attacking atom is same or belong to same period then Nucleophilicity = Basicity

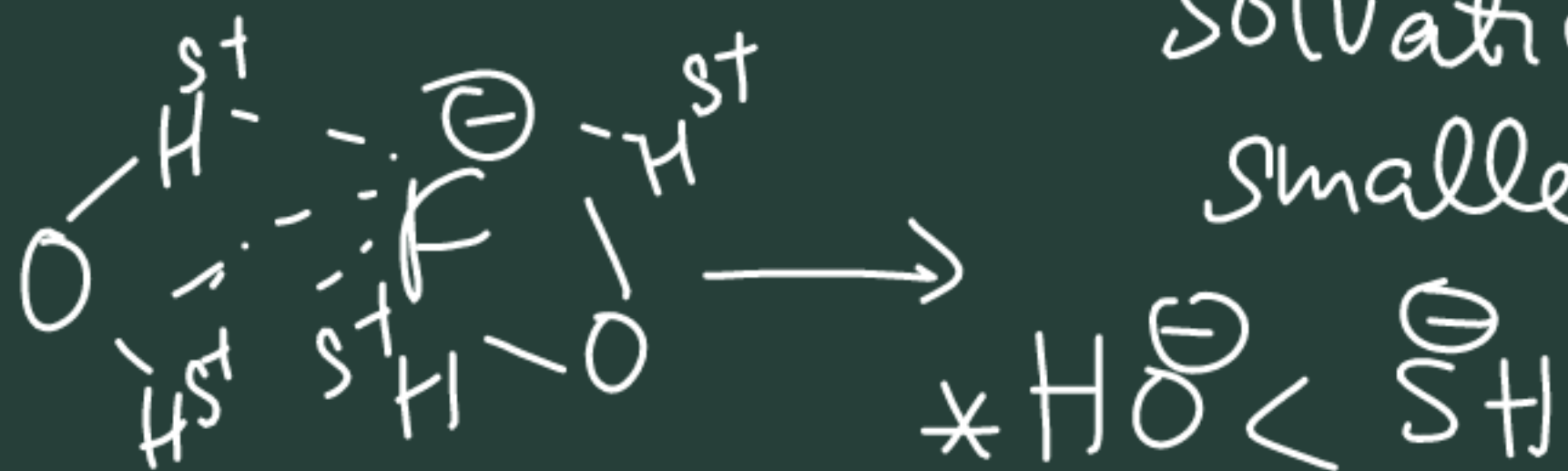
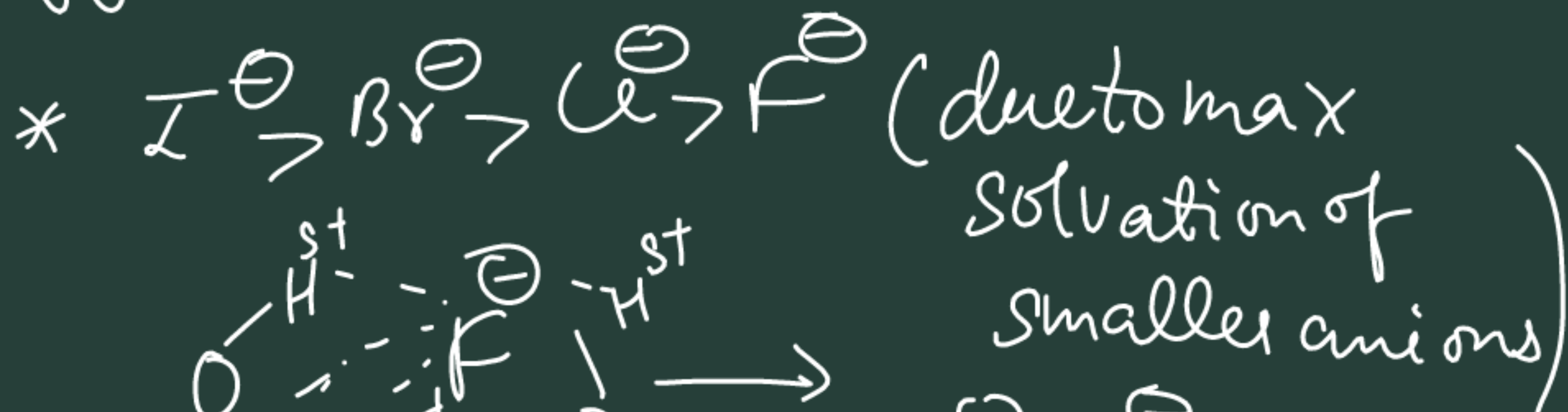


② When Nu belongs to same group \rightarrow PPS \rightarrow PAPS

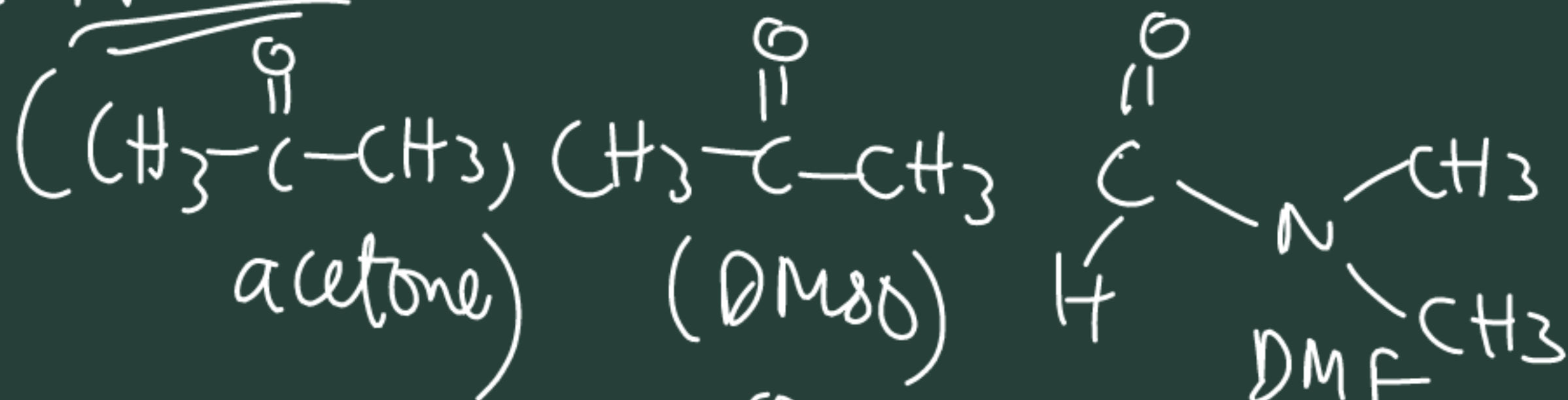
Case I PPS Then Bigger Size Nu is better



PA



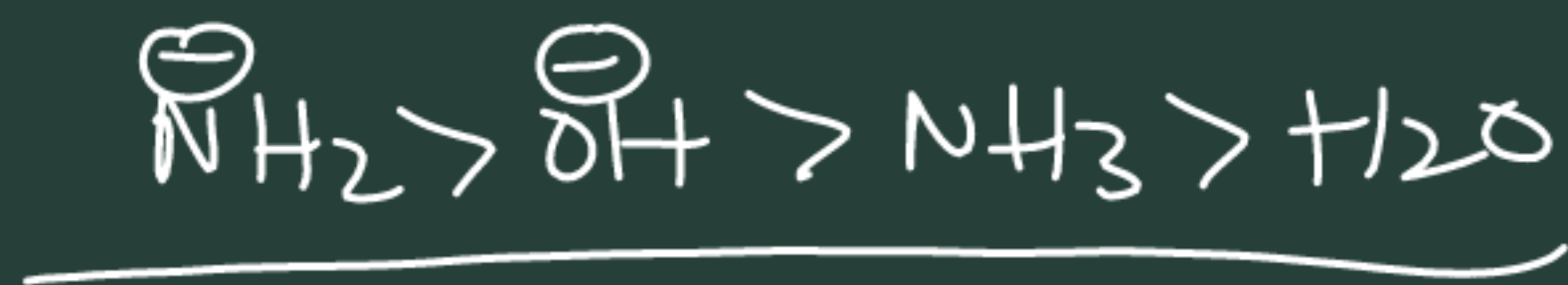
Case II PA PS



x If solvent not given assume it water.



③ Negatively charged is always better than neutral



④ Steric factor

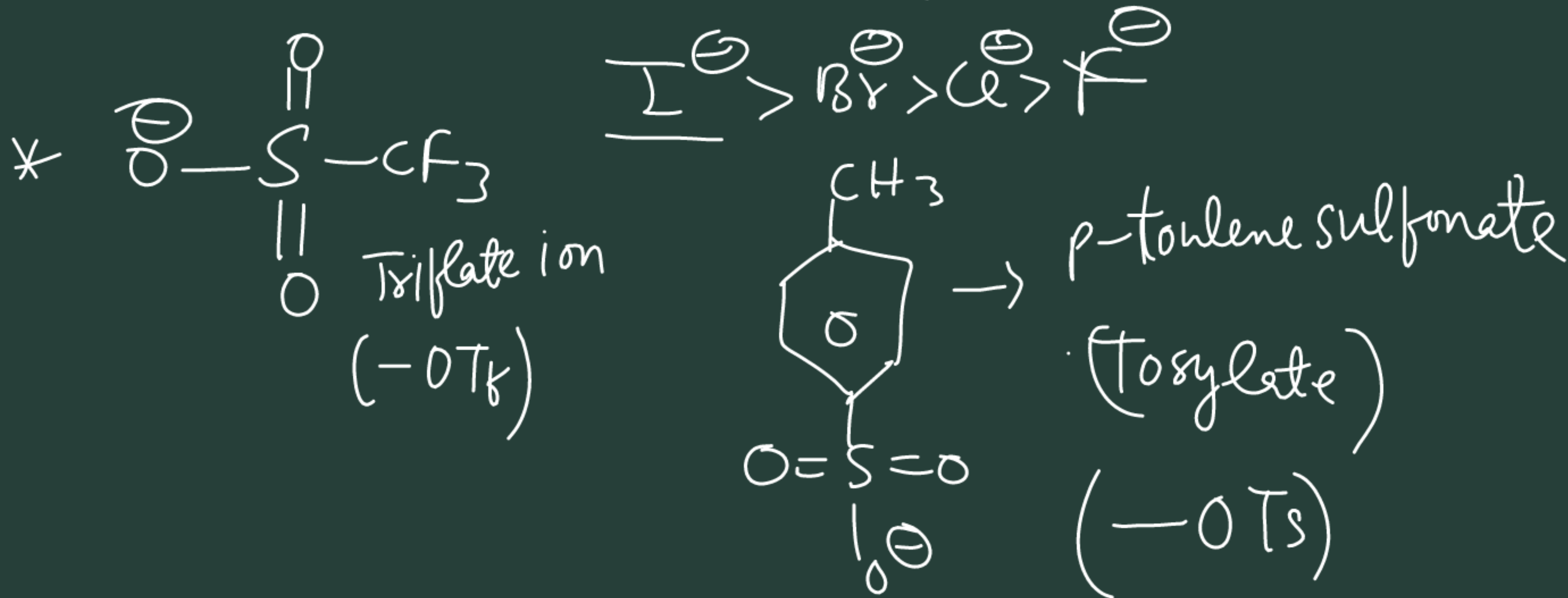


(tert-Butoxide)

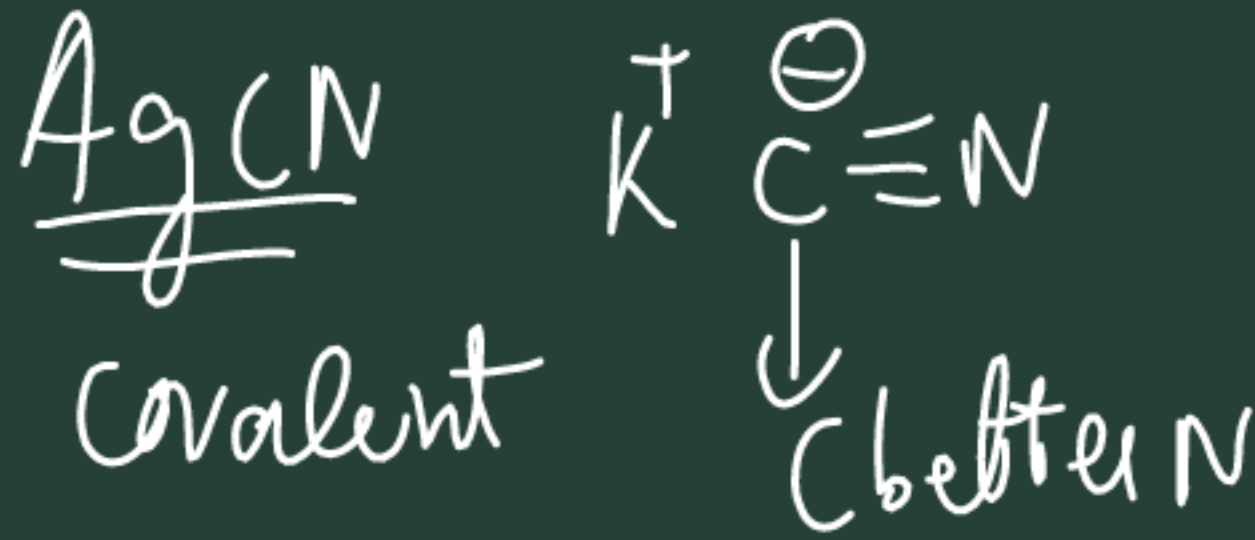
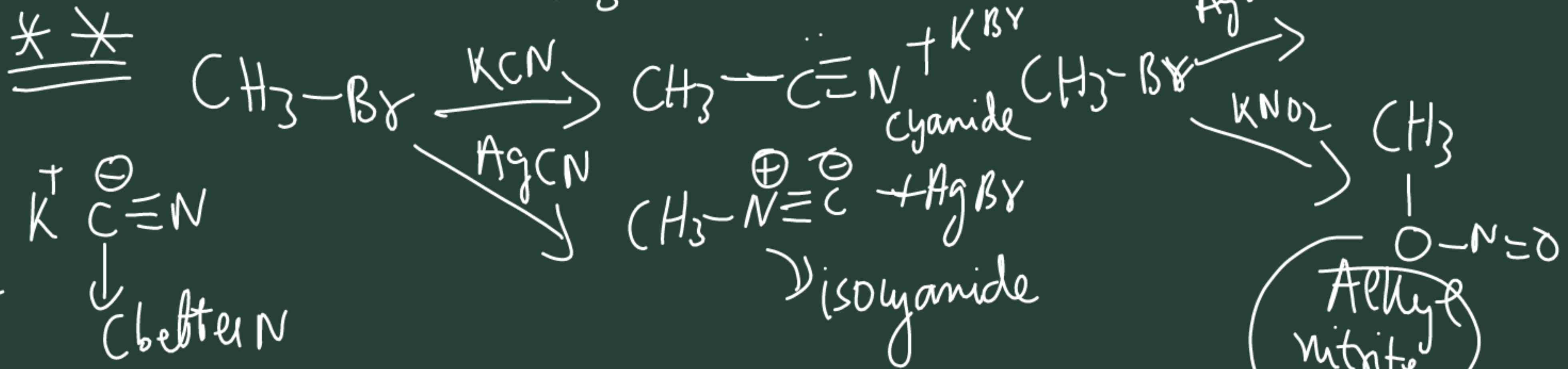
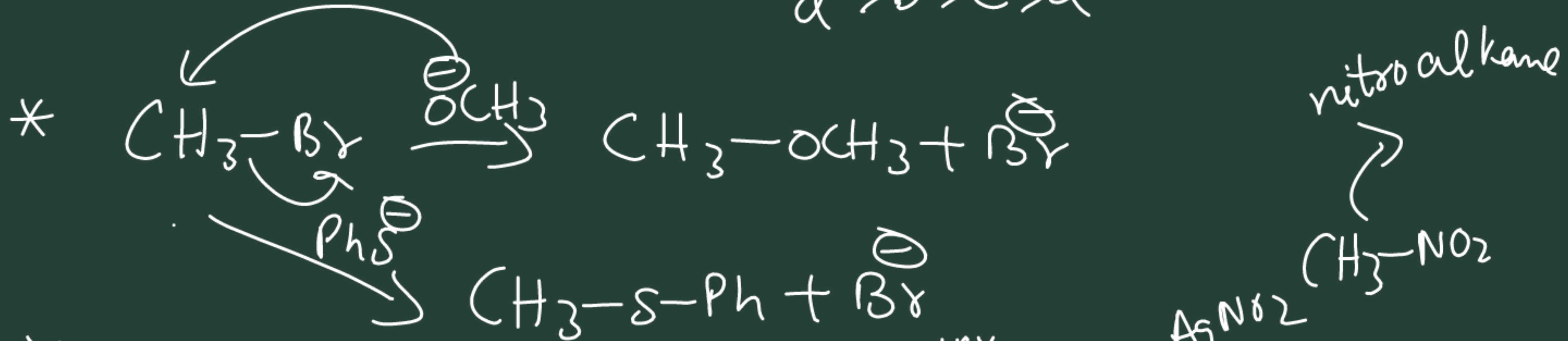
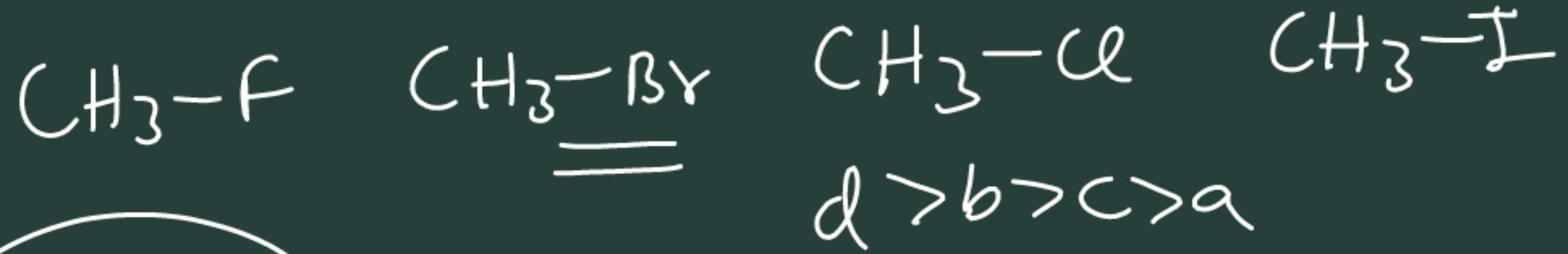
III → Leaving Group

Stable anions/compounds are good L.G.

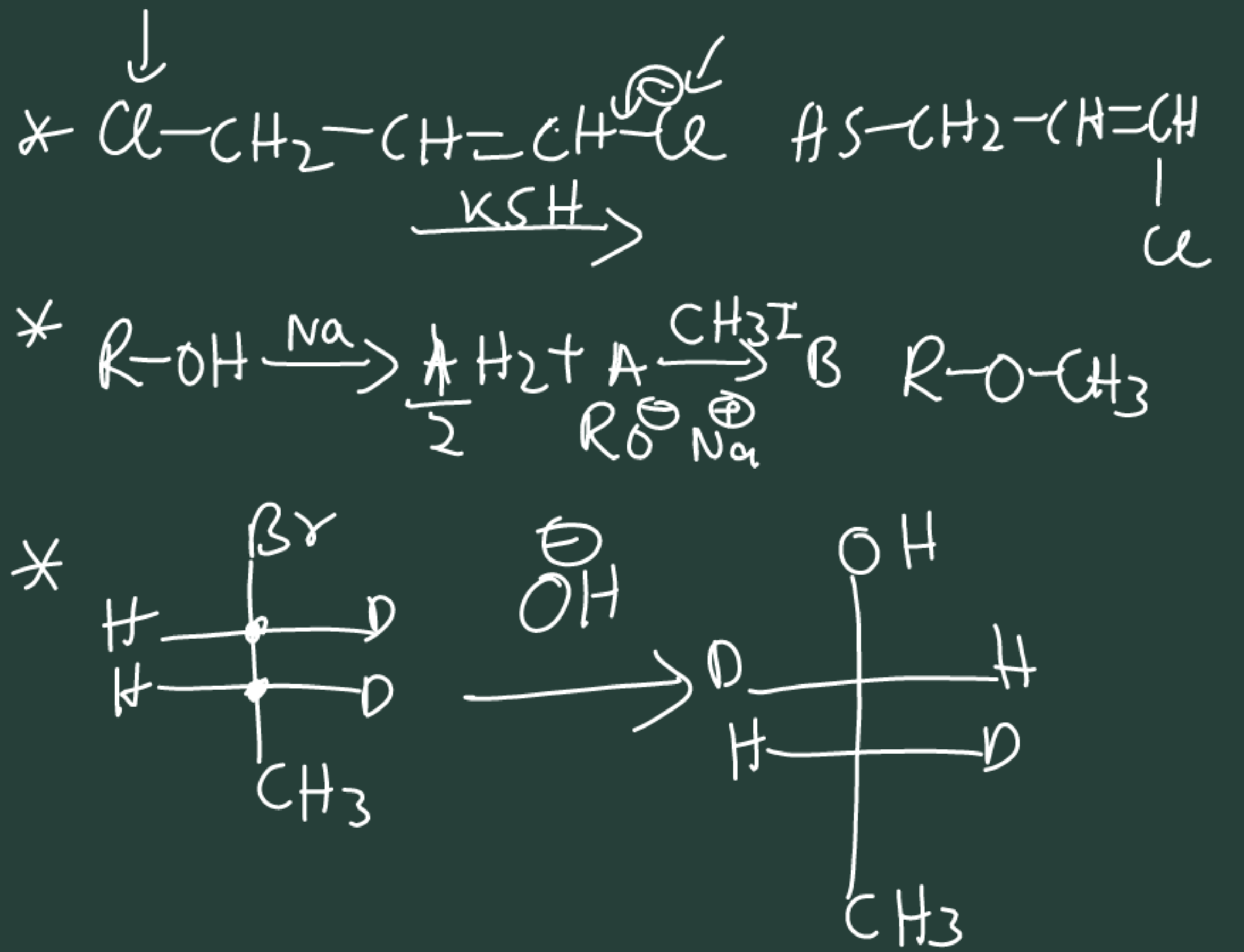
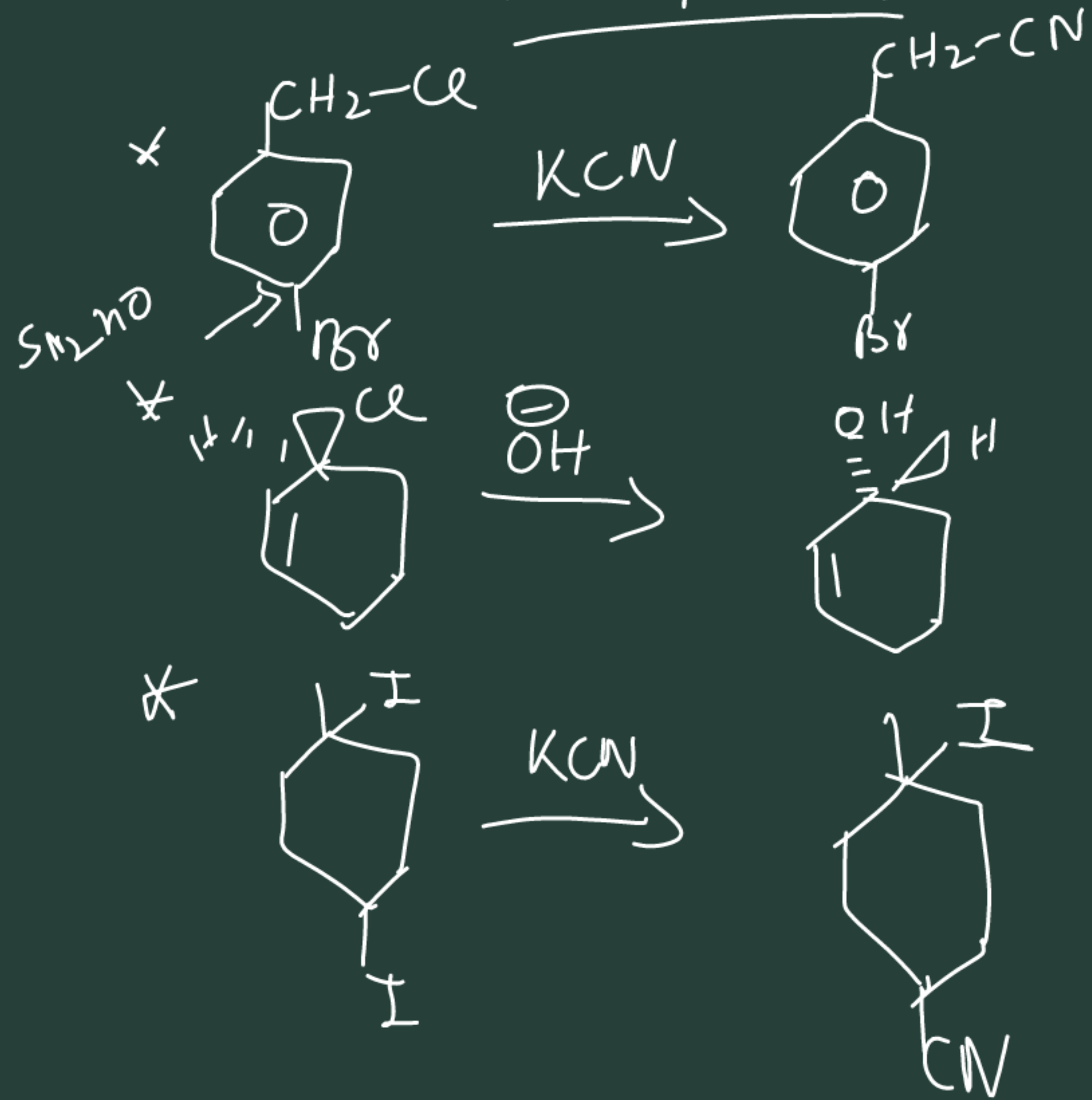
→ poor base are good L.G.



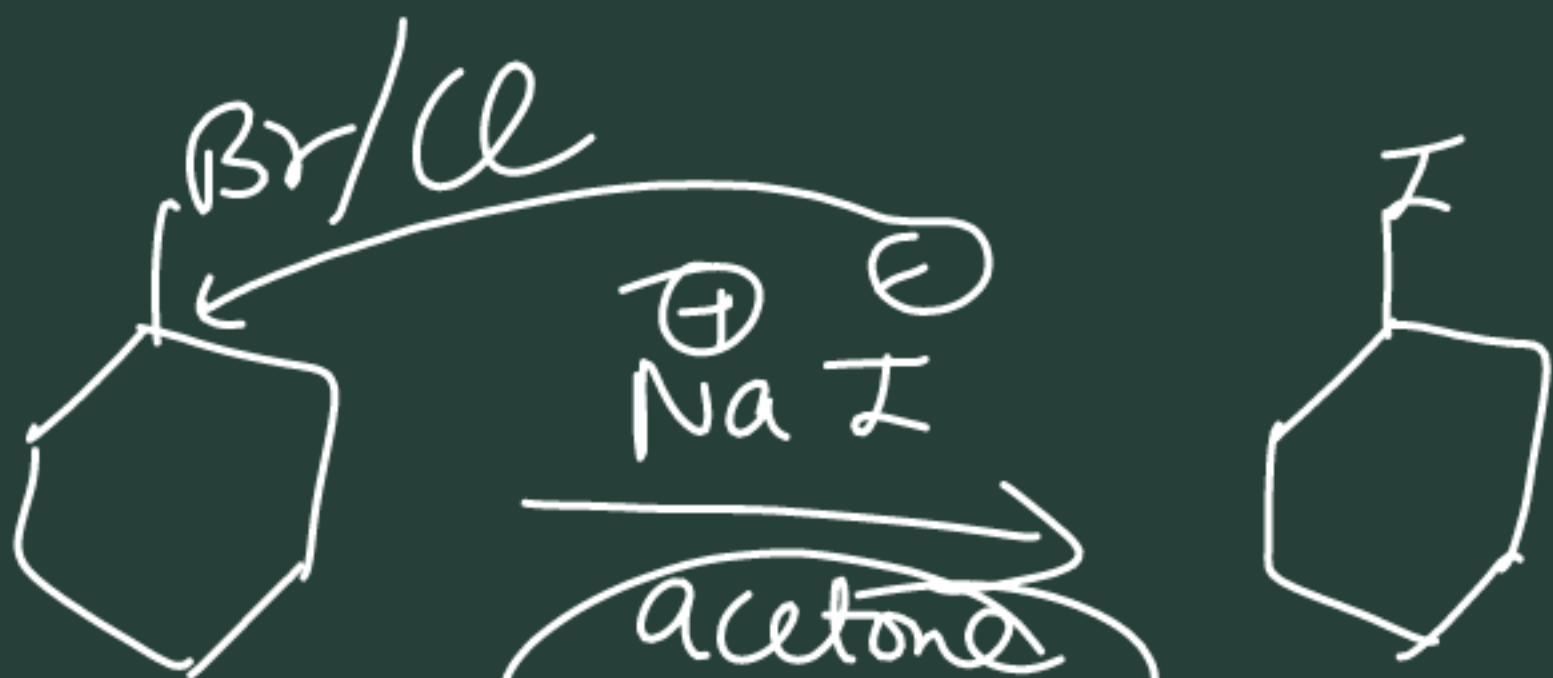
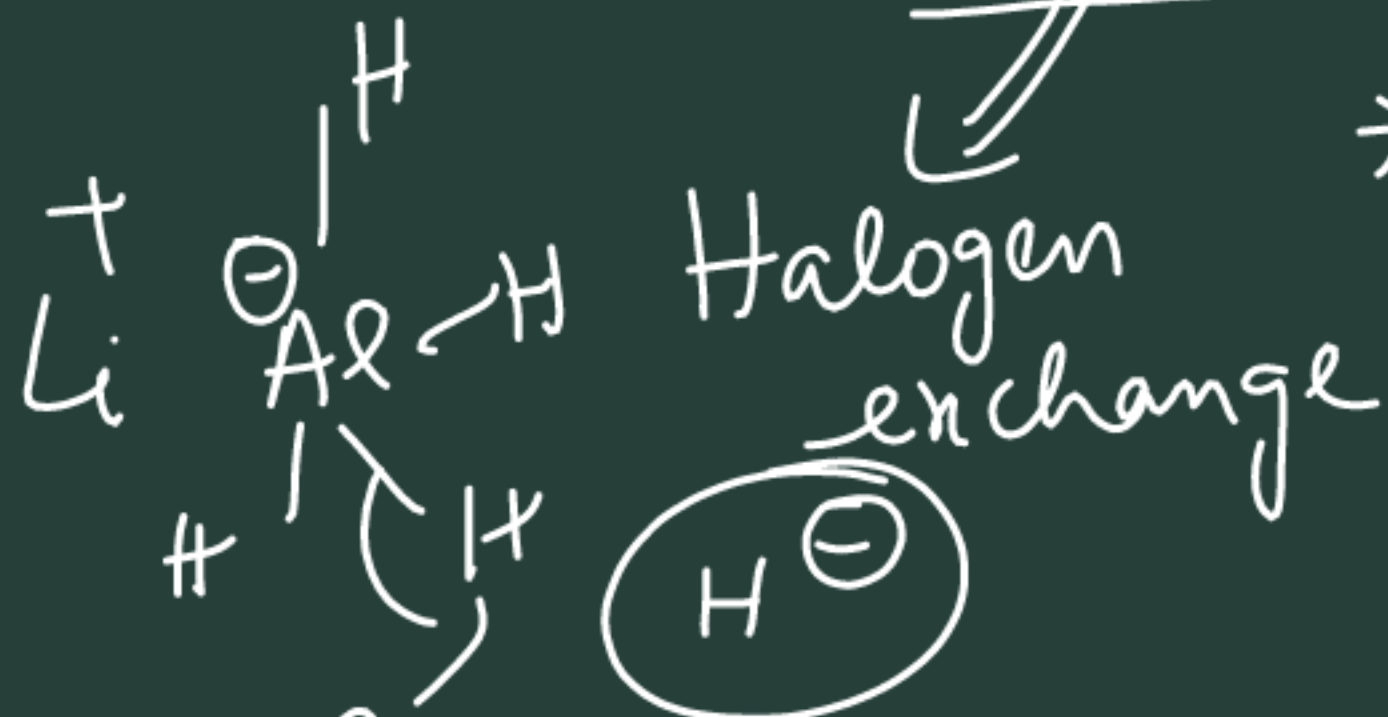
Q. Compare rate of S_N2



Draw Product



Finkesteil Rxn



$+ \text{NaBr/Cl} \downarrow$
 (ppt)
 insoluble in acetone

