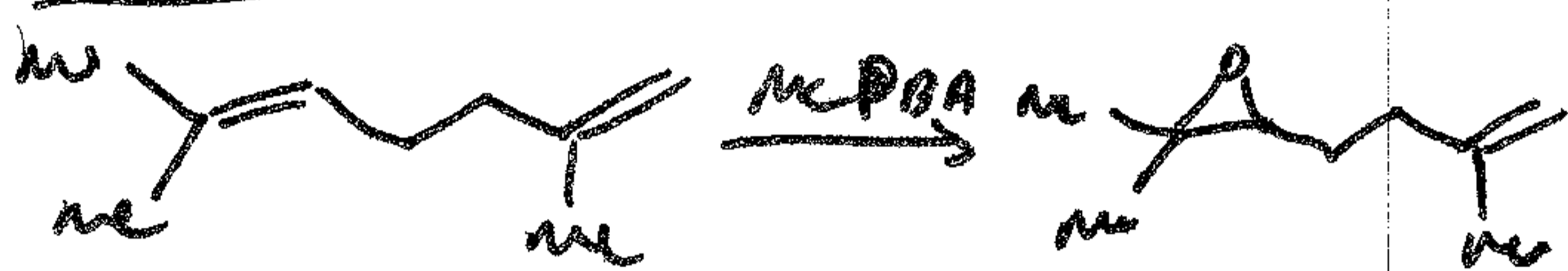
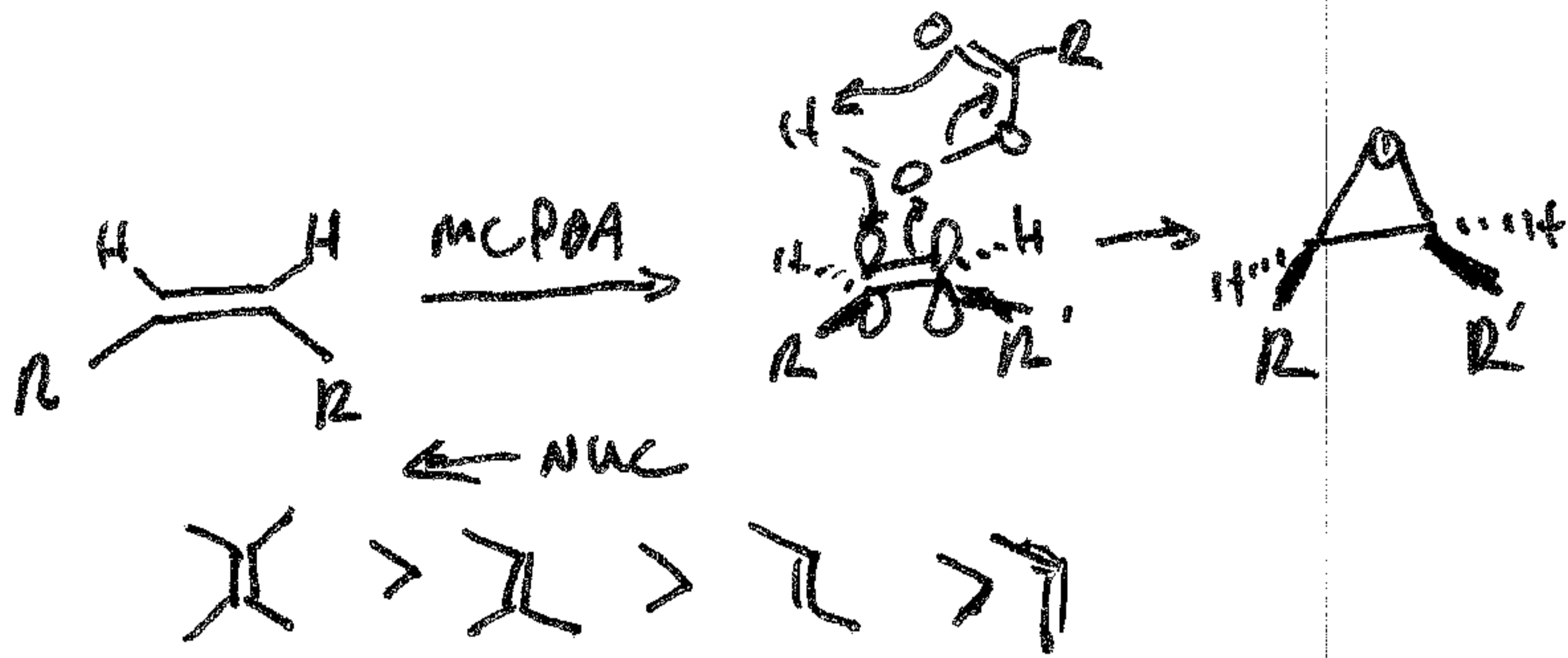
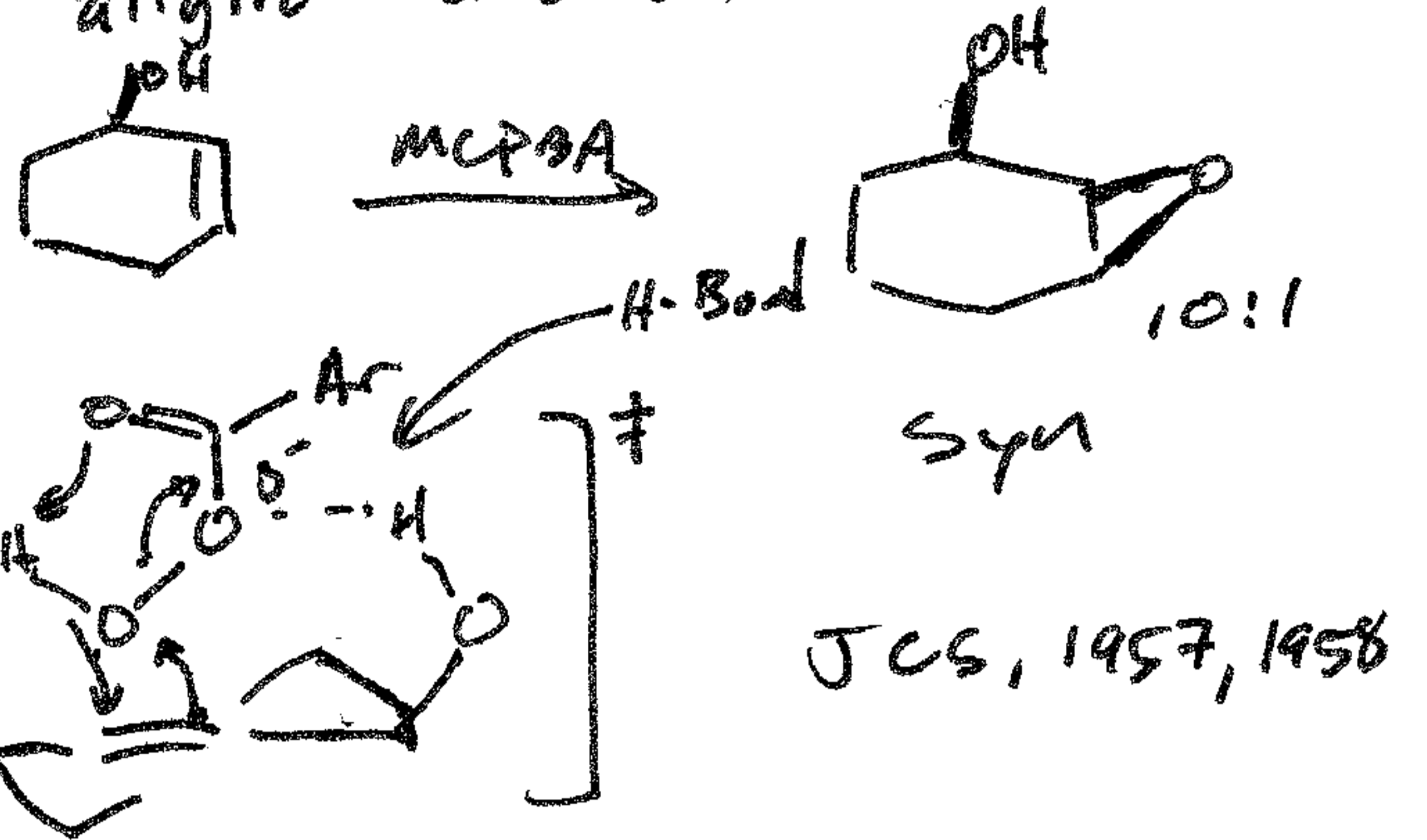


Alkene Oxidations

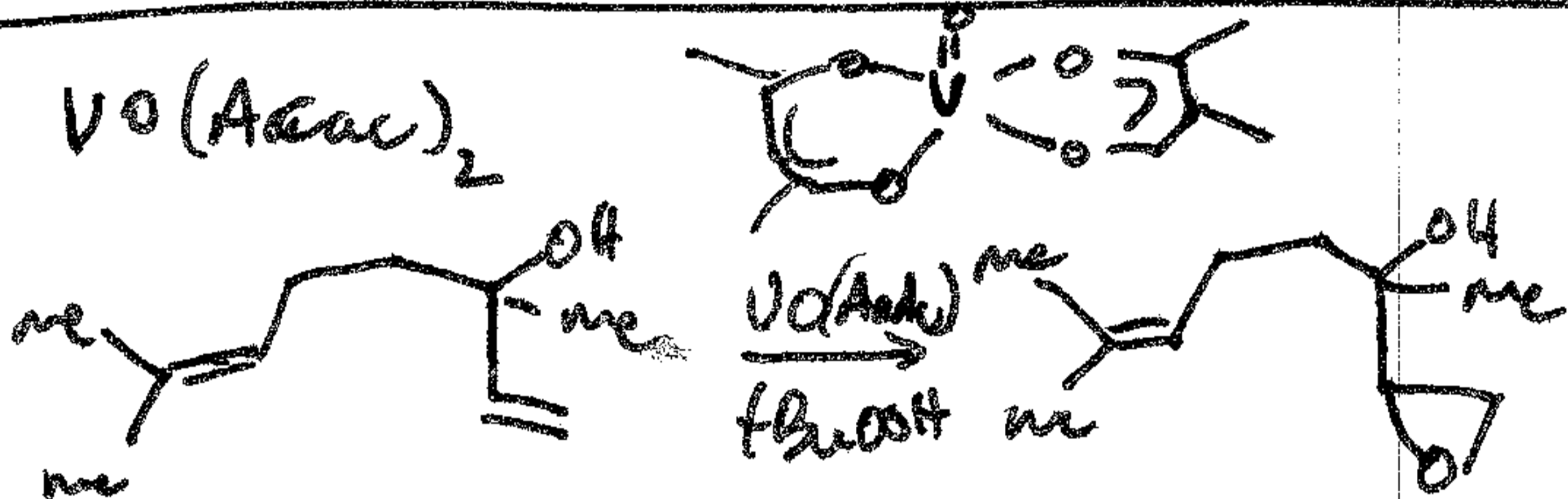
Epoxidations - Peroxides



Directed epoxidations allylic - alcohols

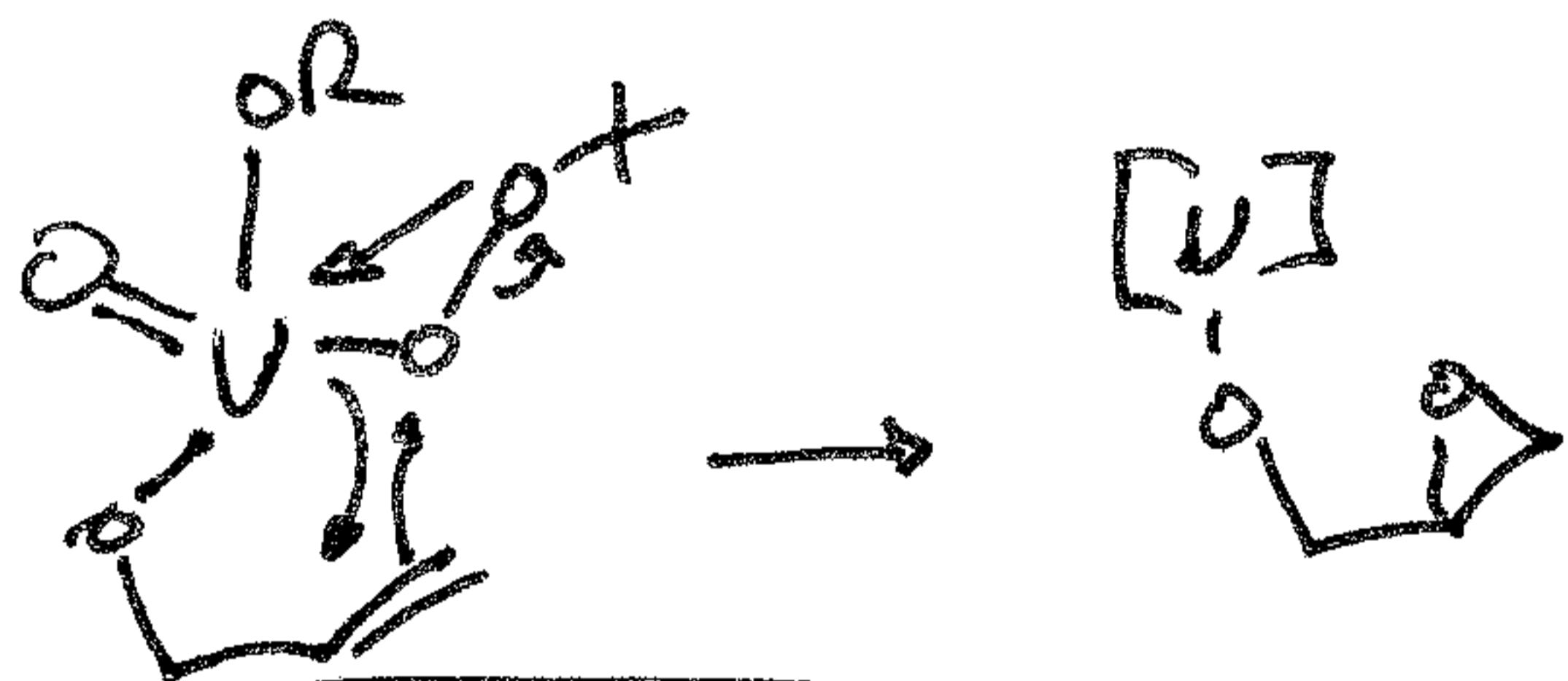
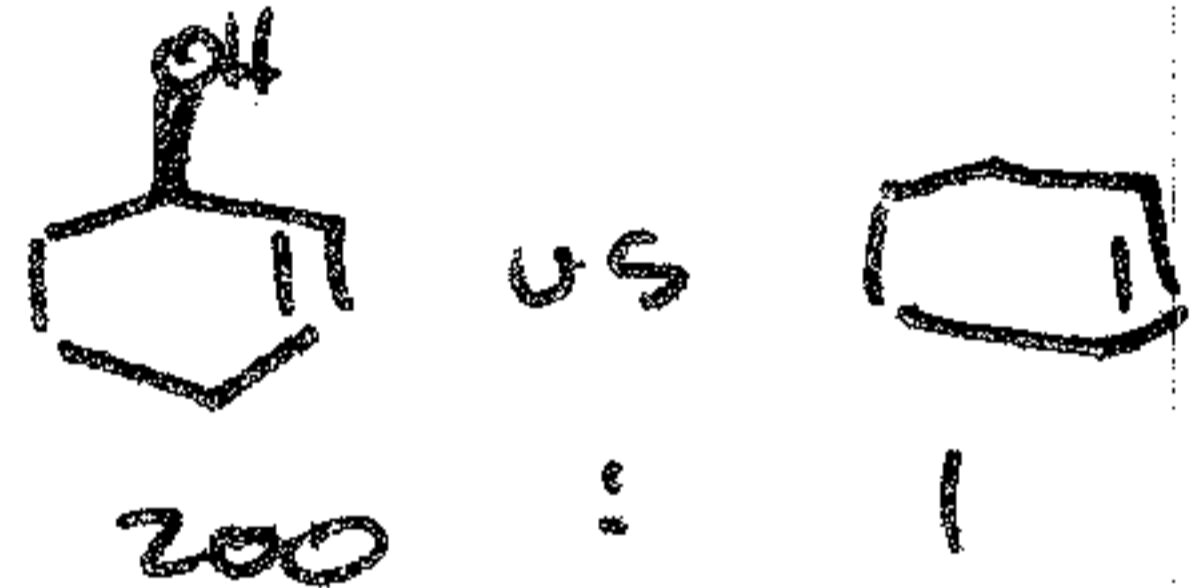


VO(AcAc)₂

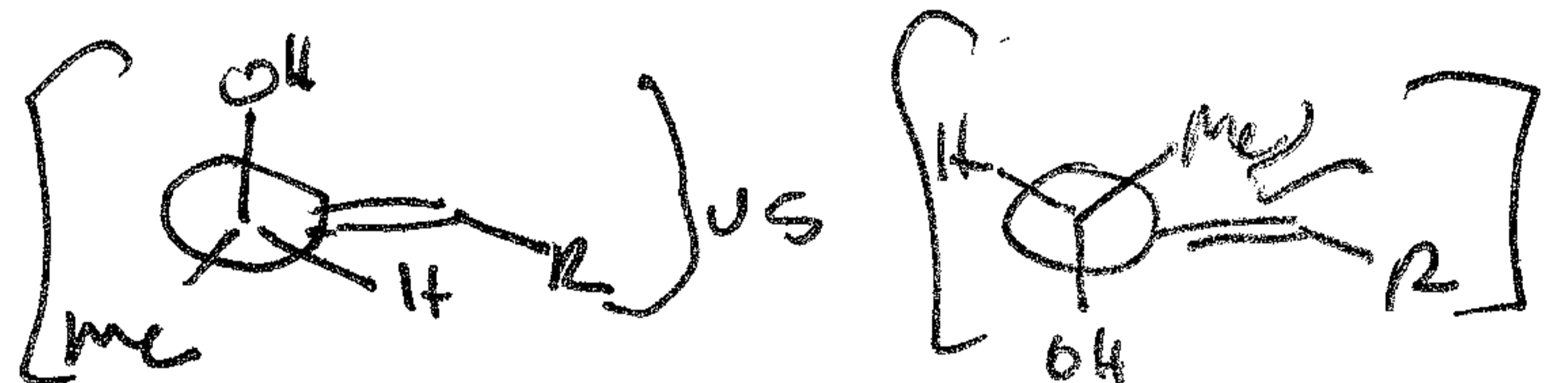


OH directed!

Rel rates



Allylic strain



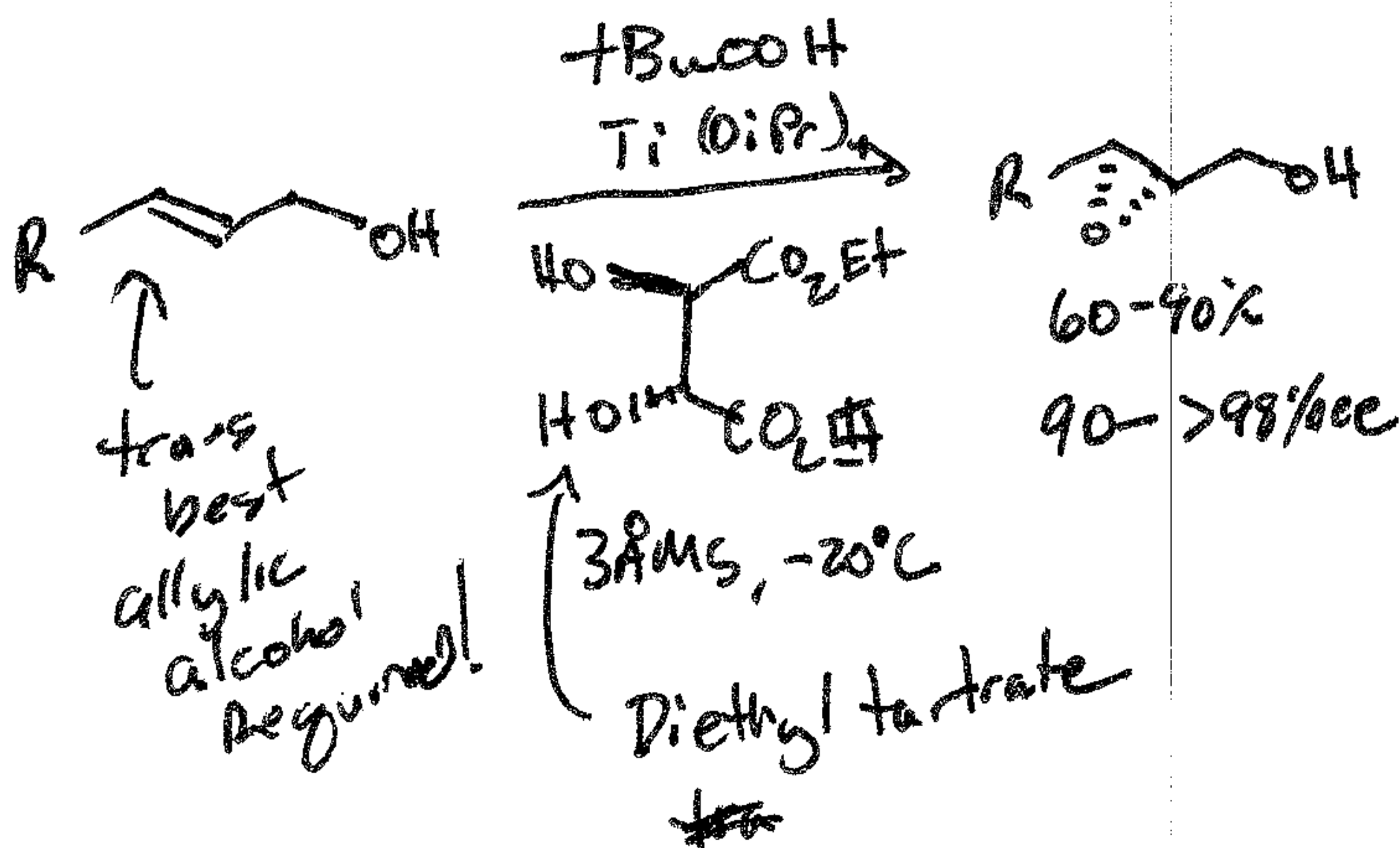
↓ MCPBA



Substrate Directed Rns

Evans, Hovredyda, Fu Chem Rev, 1993, 93, 1307

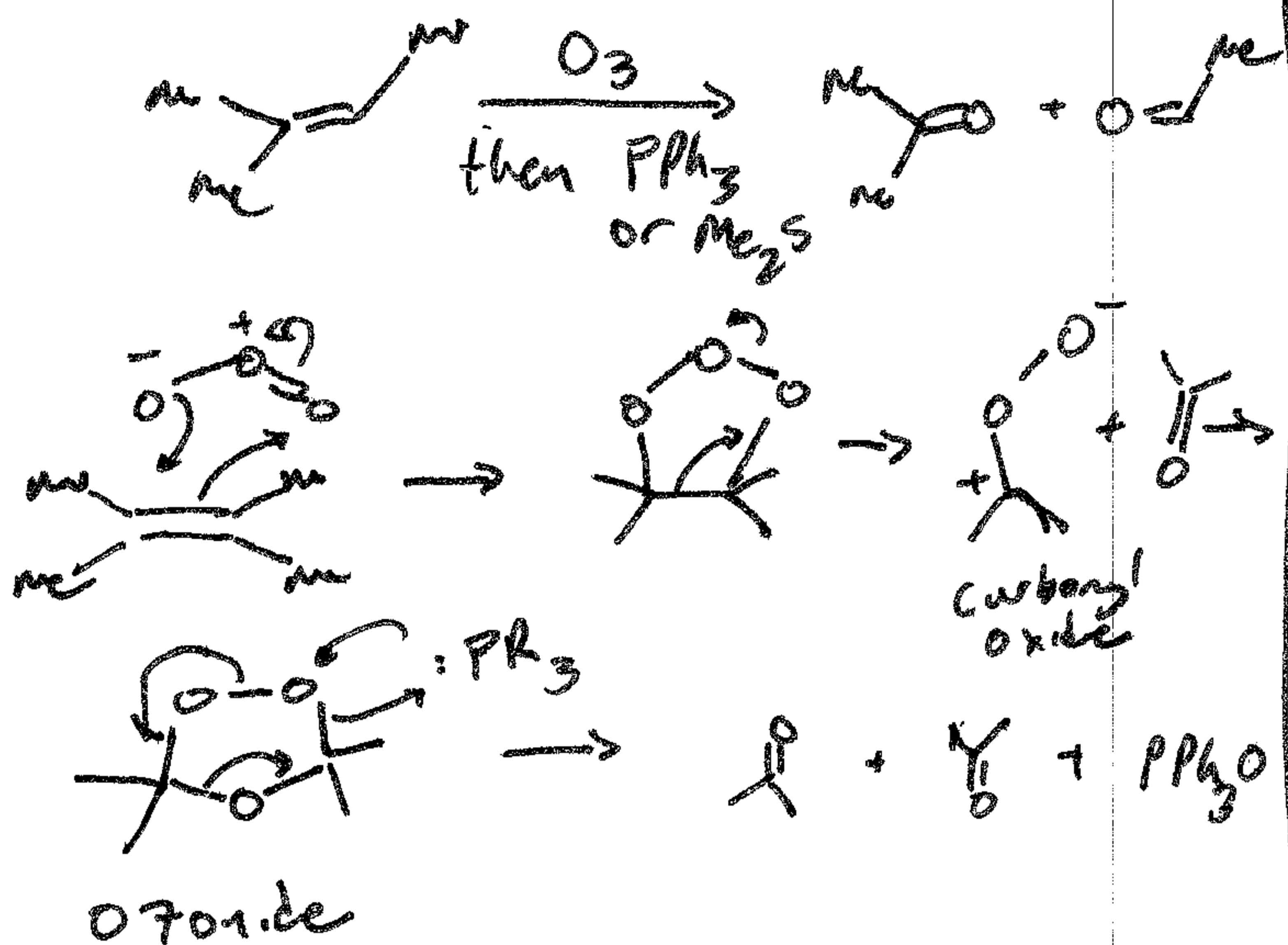
Sharpless Asy. Epoxidation (SAE)



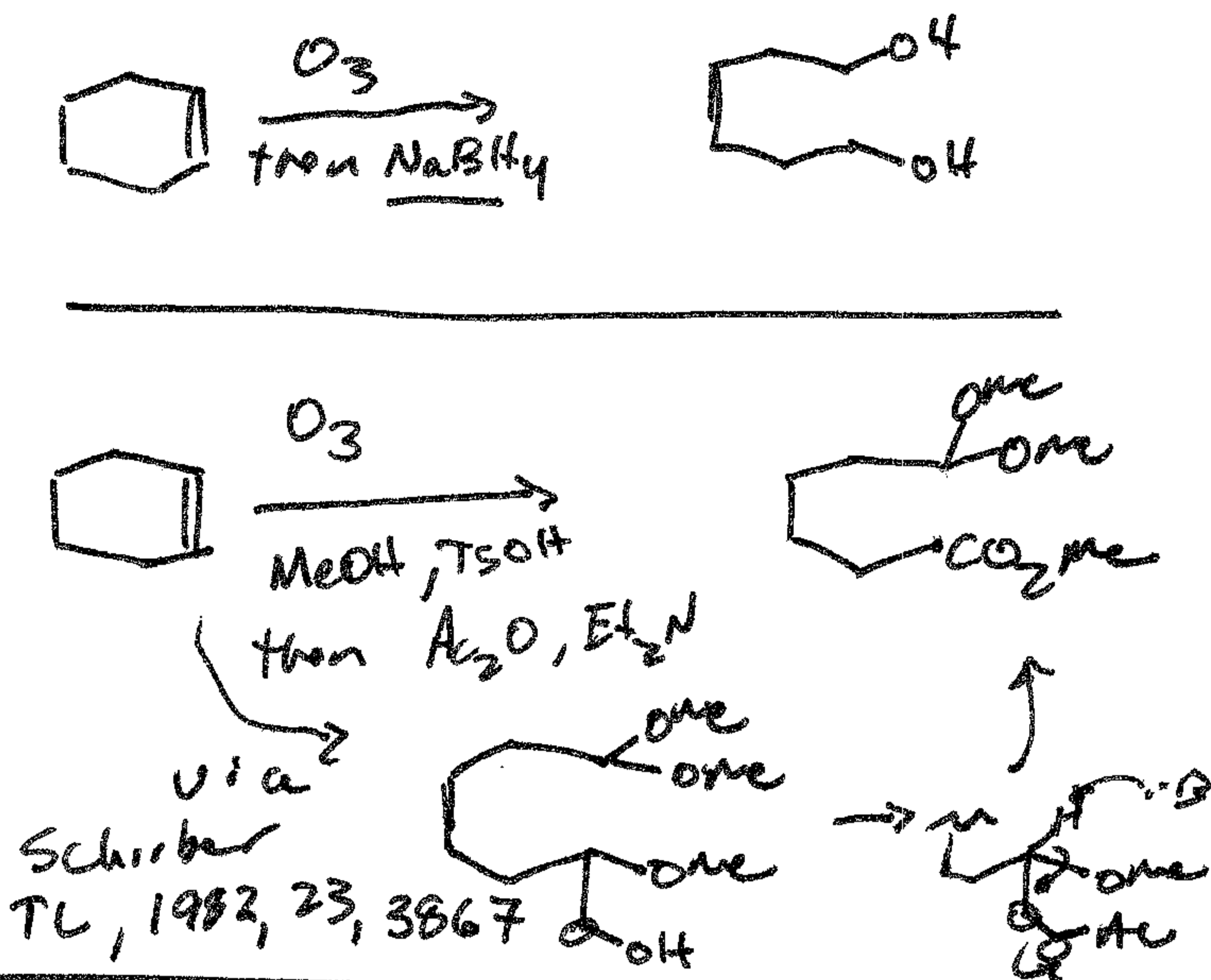
Jacobsen Epoxidation

Shi Epoxidation

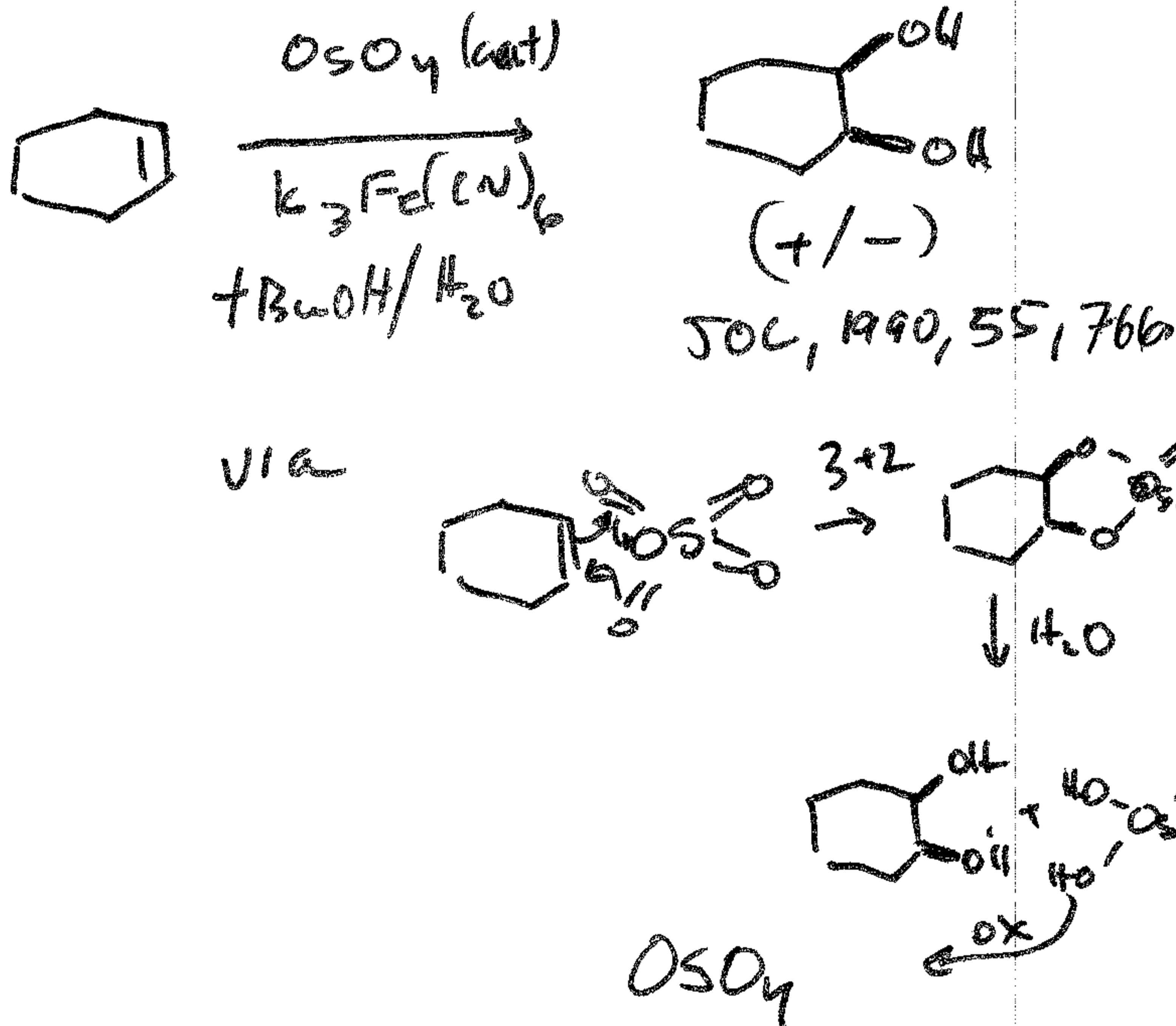
Ozonolysis



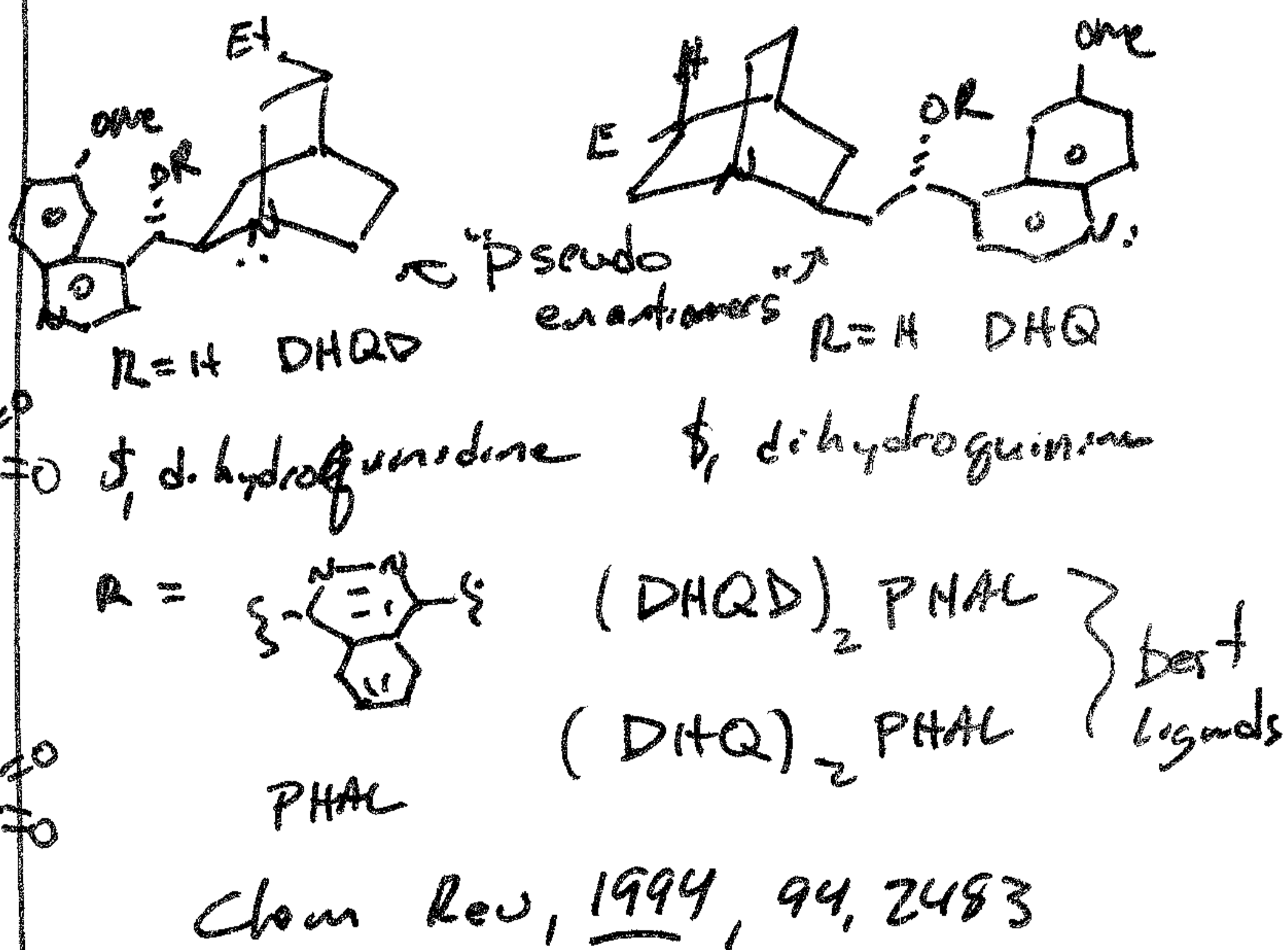
modifications



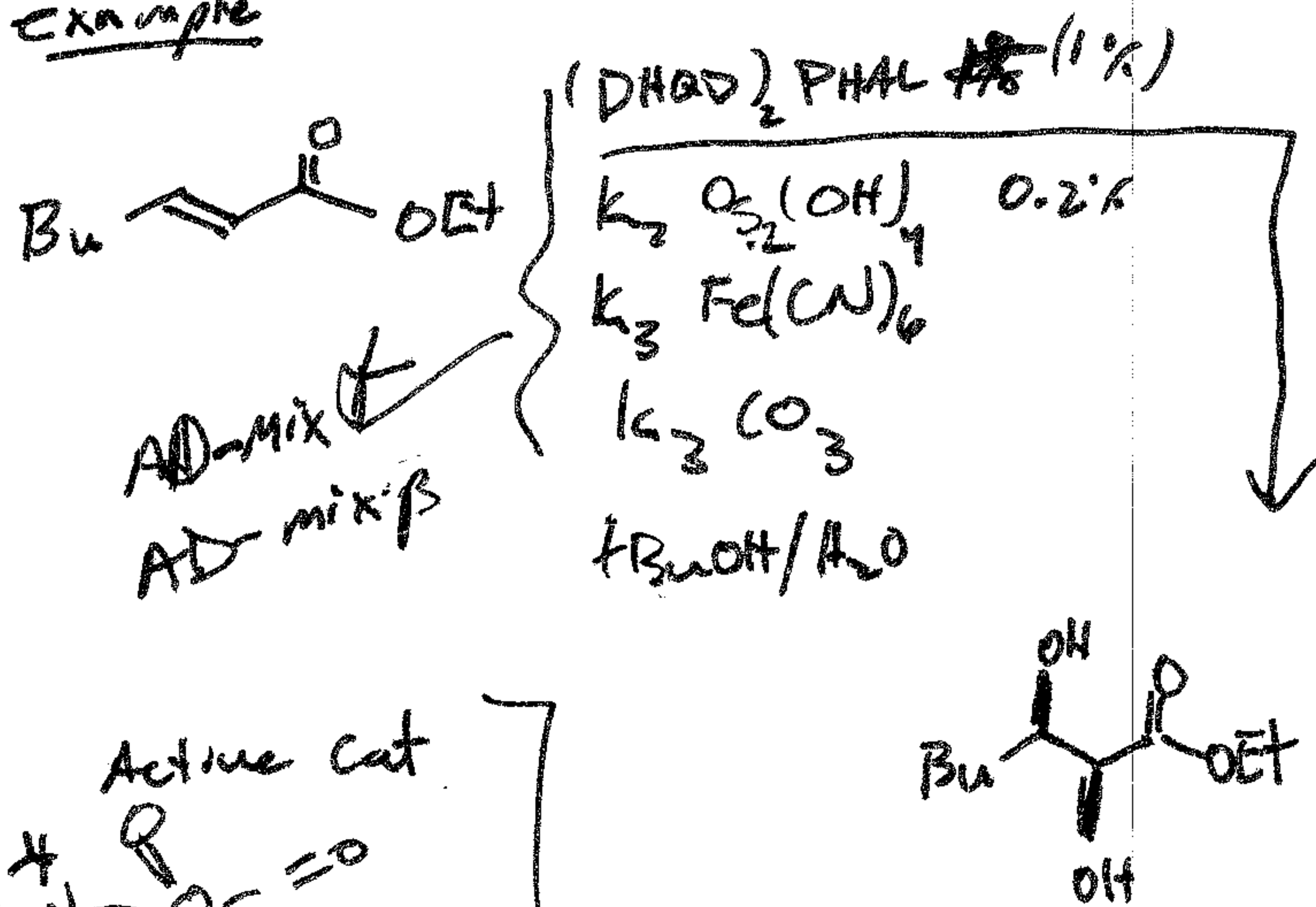
Dihydroxylation (Sharpless)



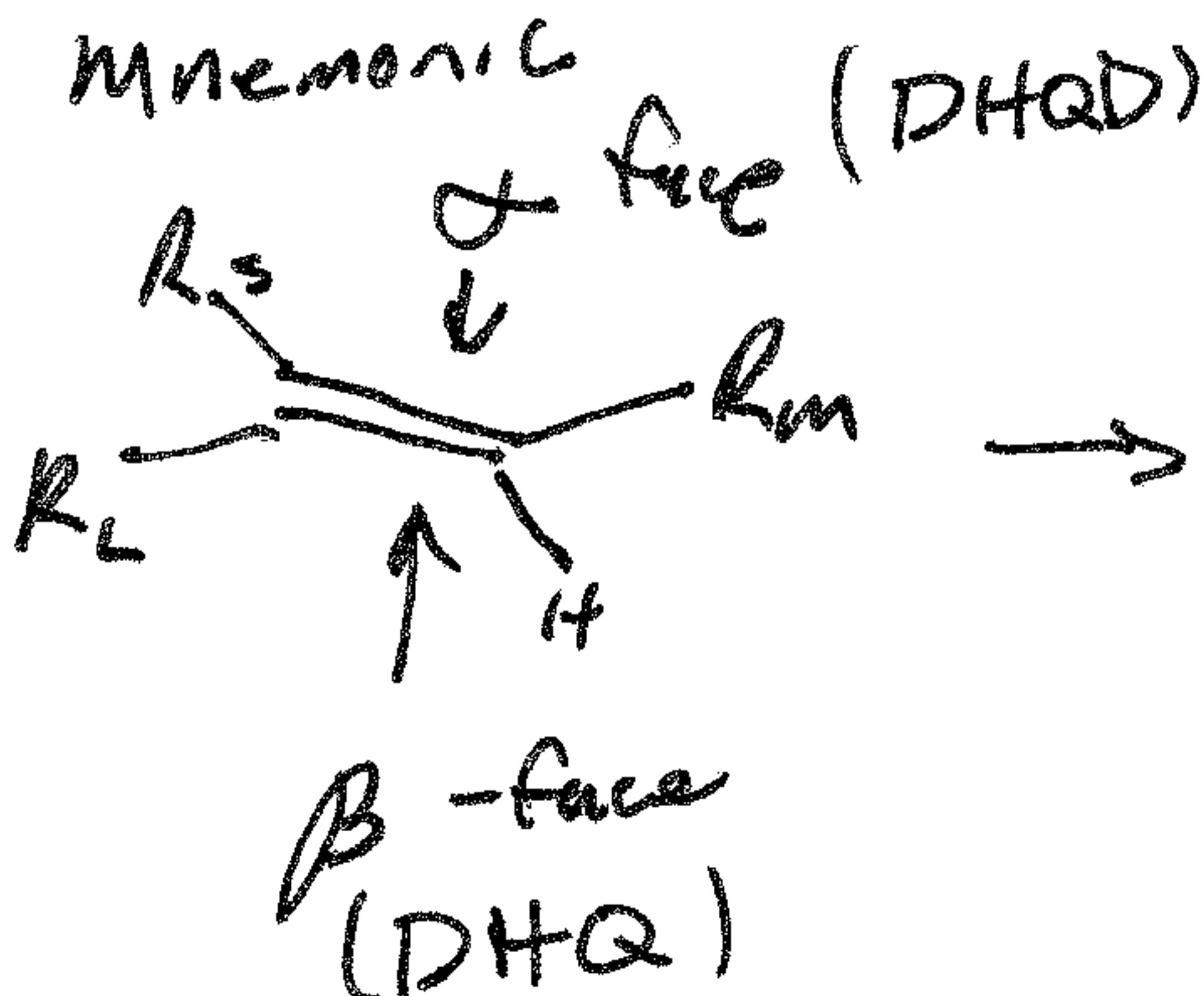
Sharpless Asy. Dihydroxylation (SAD)
 (Nobel 2001)



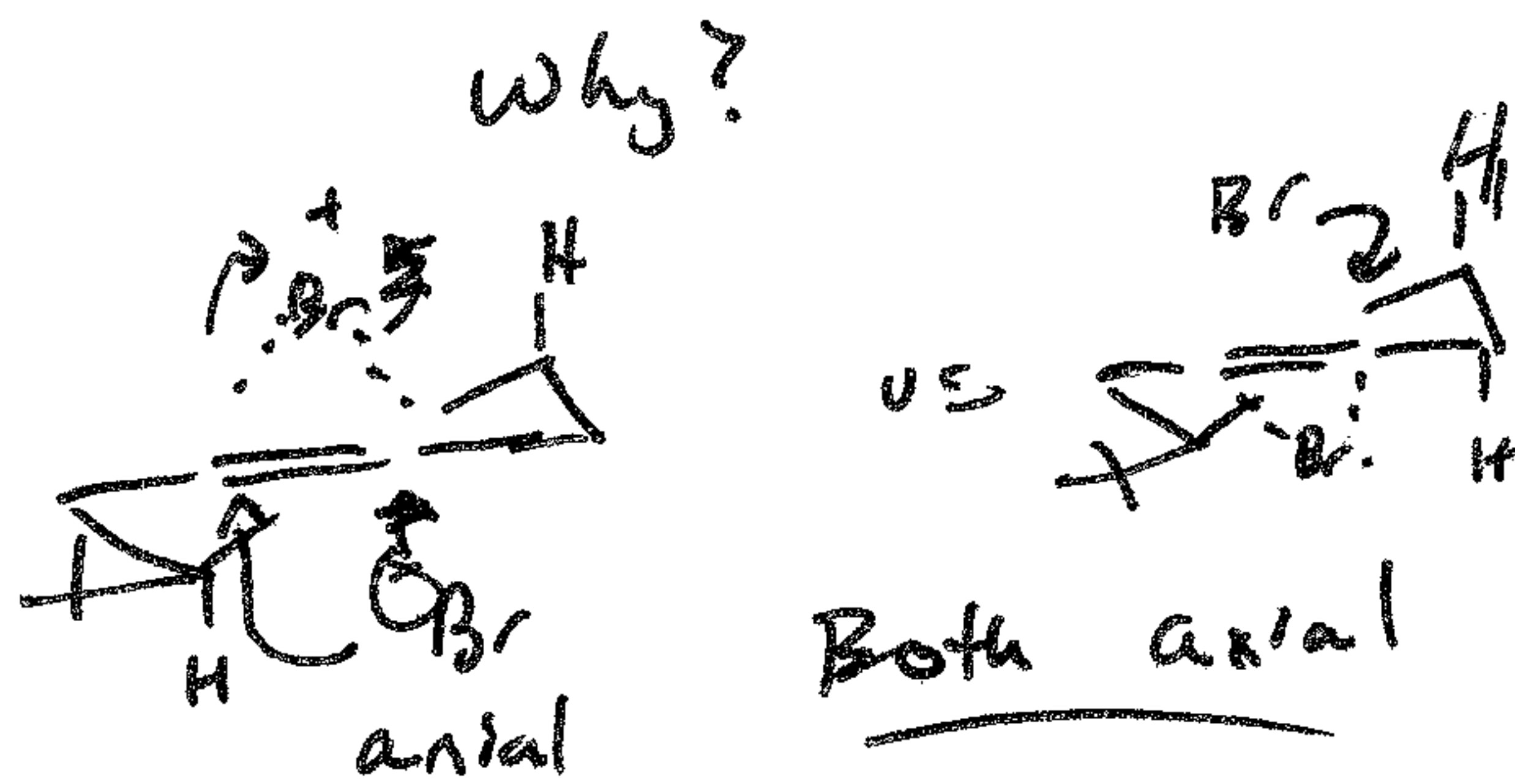
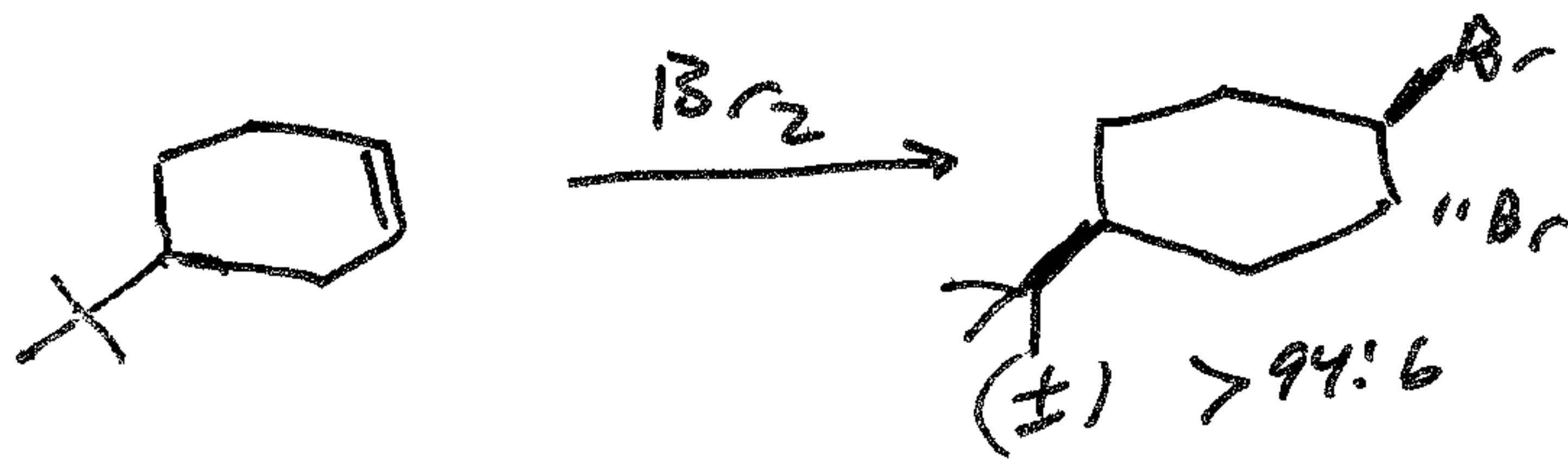
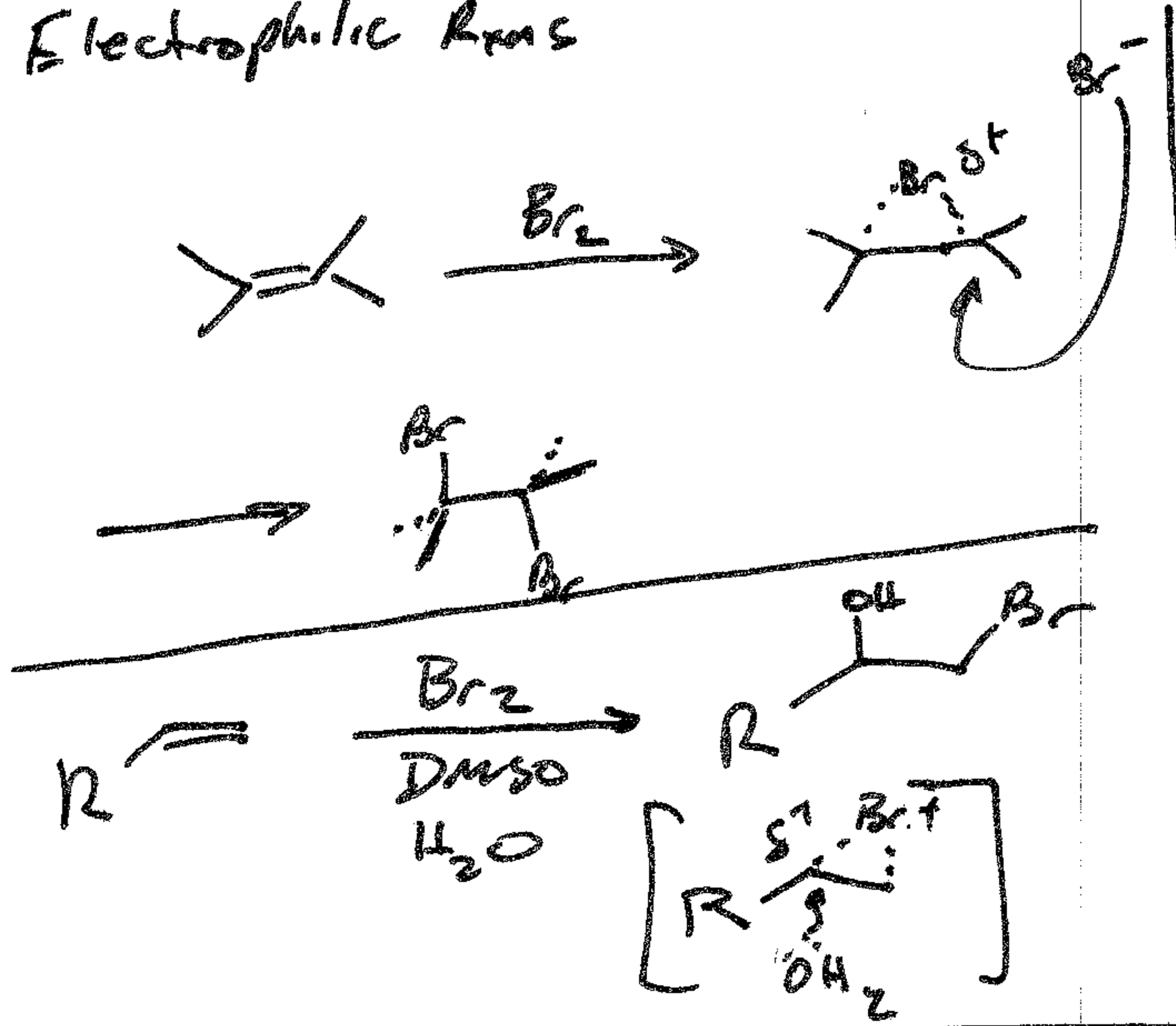
example



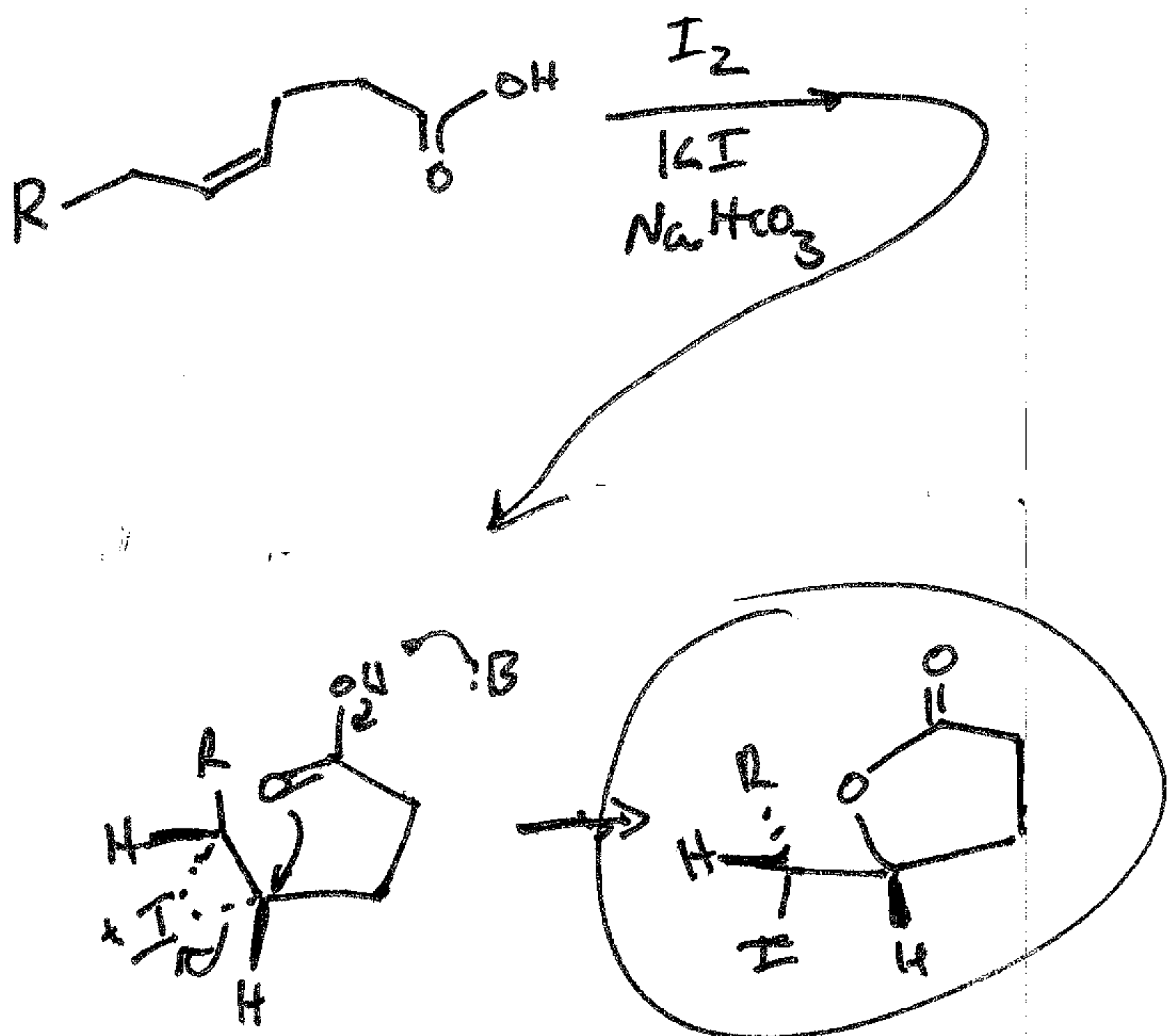
Mnemonic



Electrophilic Reactions



Iodo Lactonization



Wacker Oxidation

