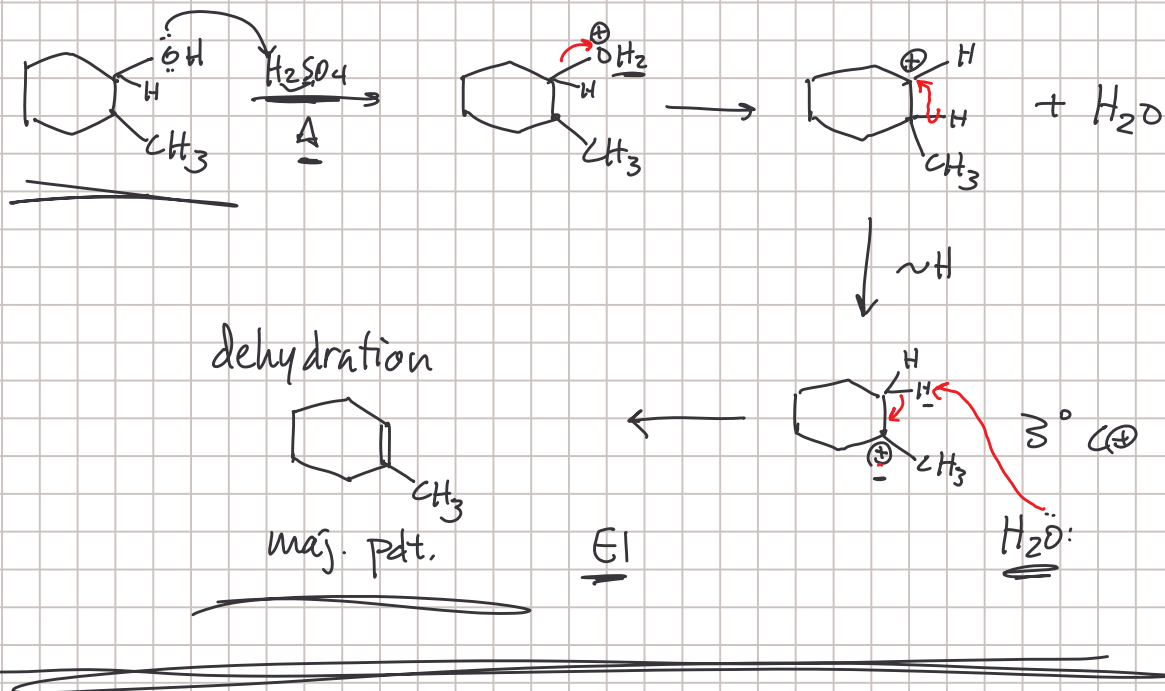


Ch 8

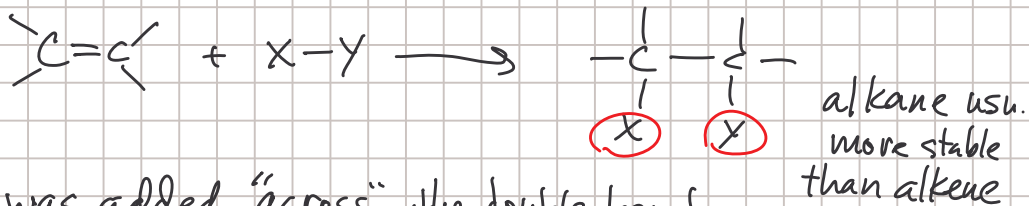
Note Title

11/21/2005

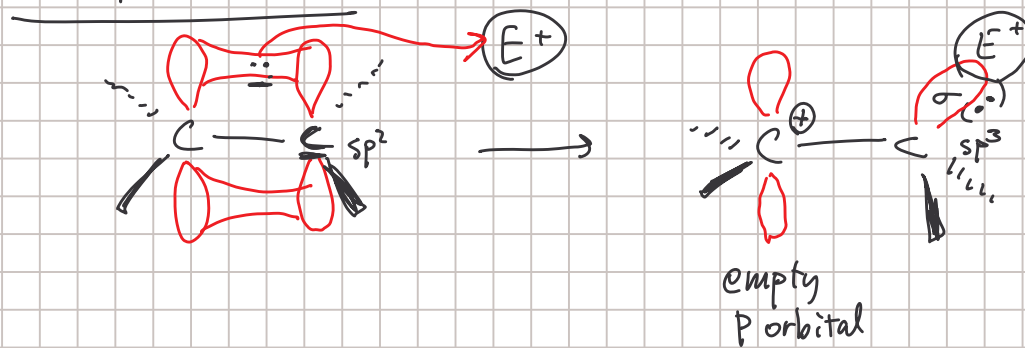


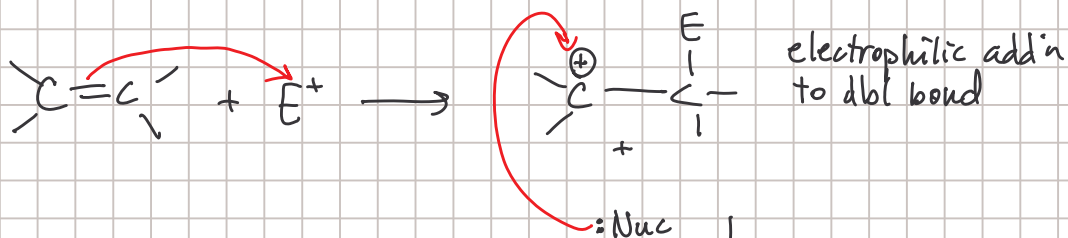
Ch 8: Reactions of alkenes

Addition reactions most common w/ alkenes

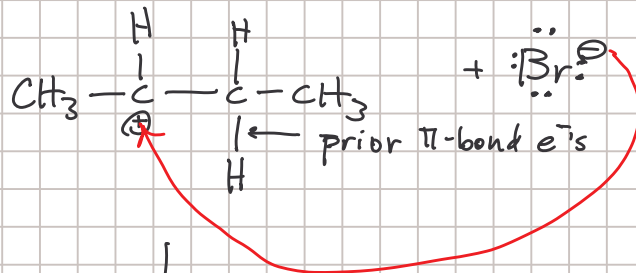
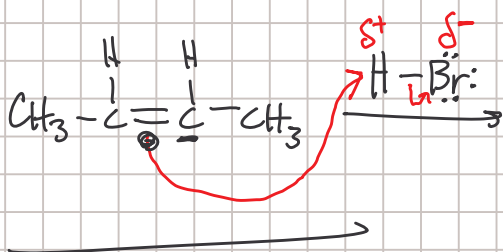
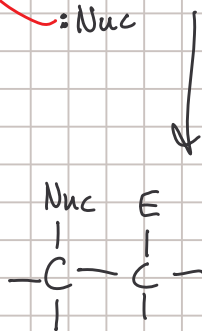


Electrophilic additions

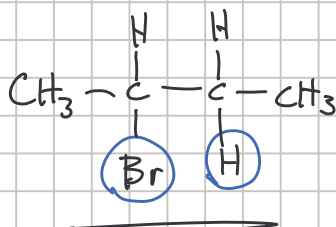




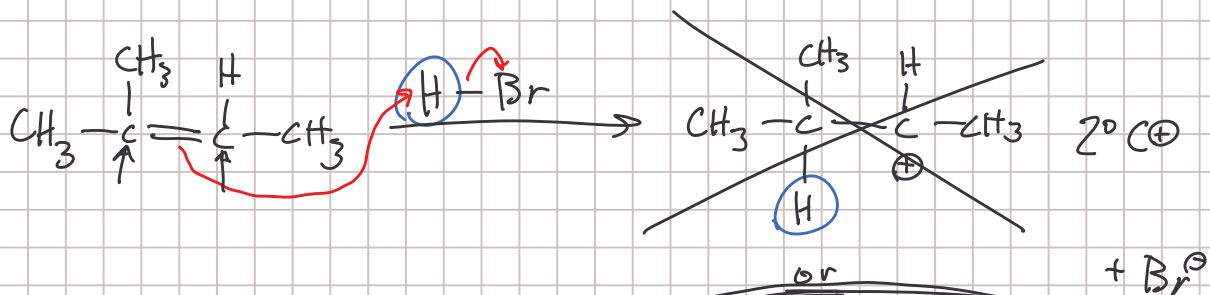
Nuc: $\&E^+$ added across double bond



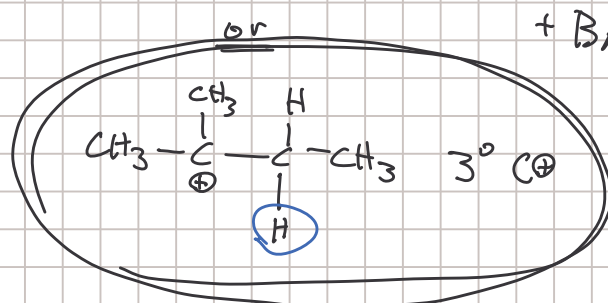
H-Br added across double bond

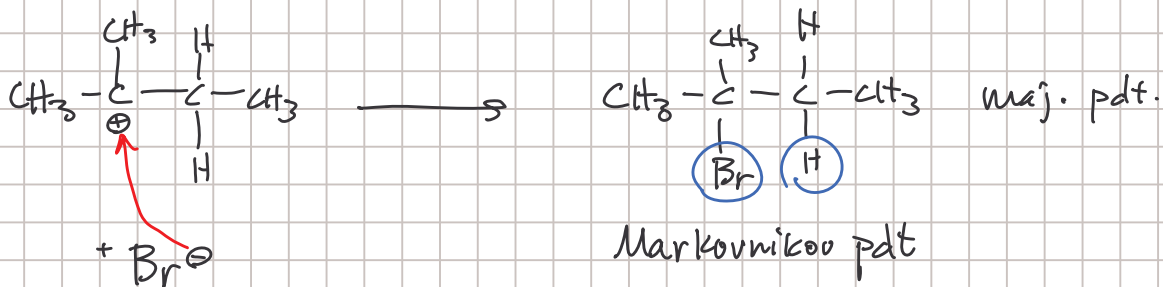


- ① π^- attack E^+
- ② Nuc: attacks C^+



Choose C^+ intermediate w/ most stable C^+



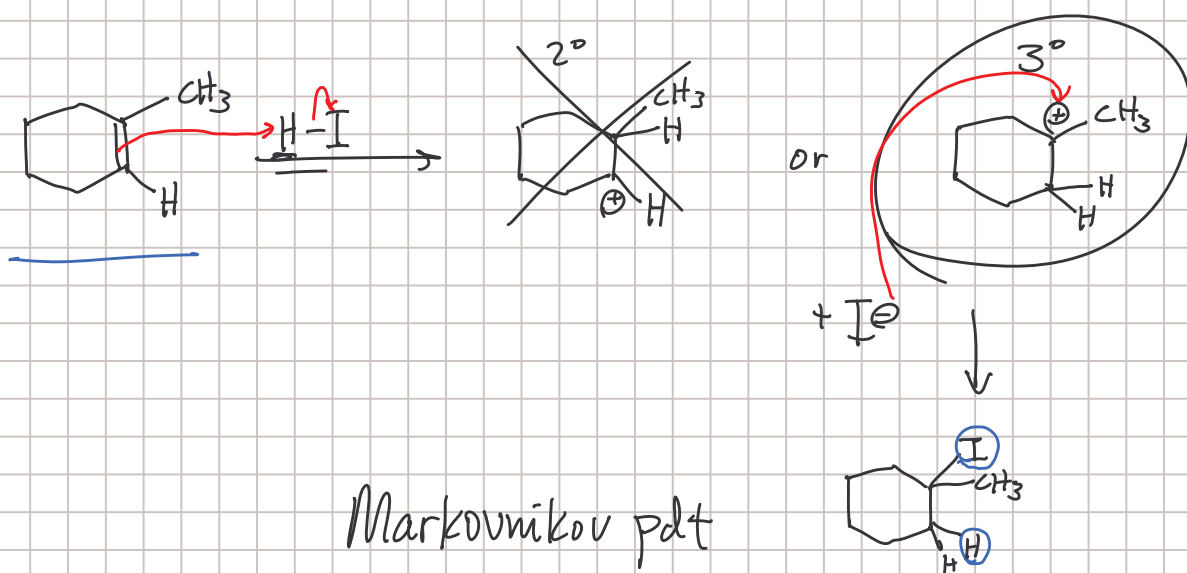


Markovnikov rule (addition of proton-acid to alkene)

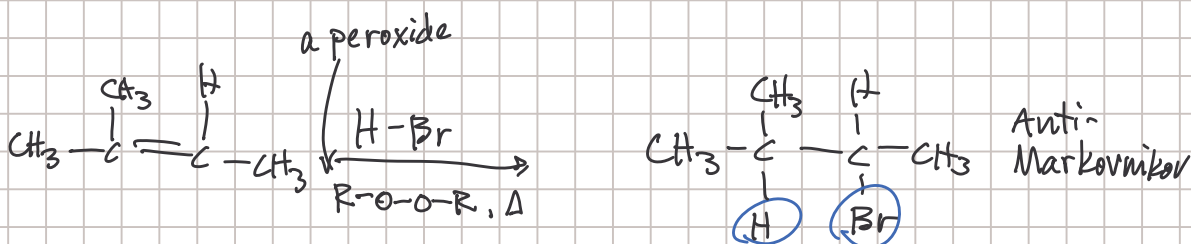
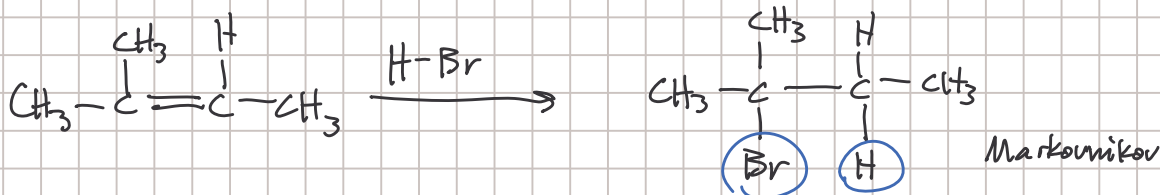
→ proton added to C w/ most protons

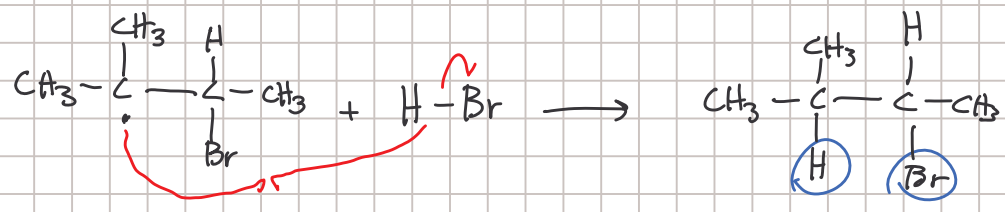
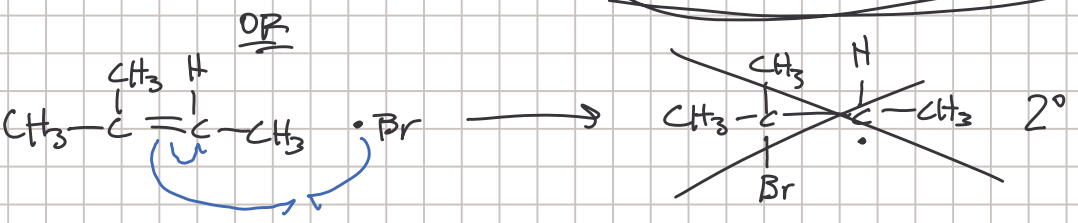
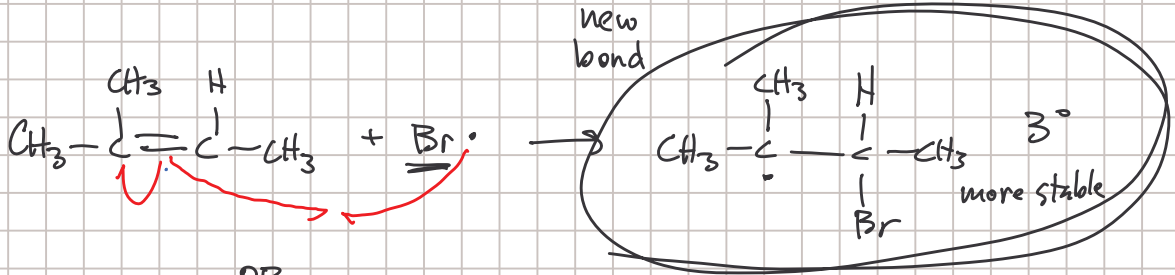
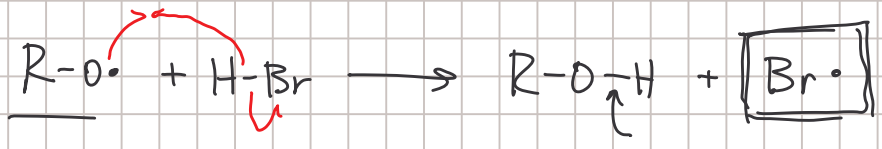
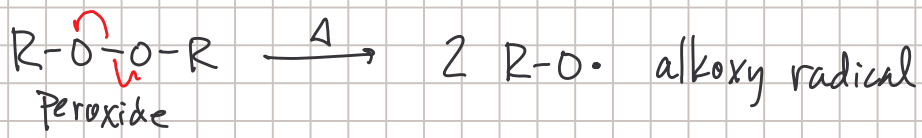
* nucleophile added to most-substituted C

(thru most stable C[⊕] intermediate)



Anti-Markovnikov addition





Anti-Markovnikov
is favored