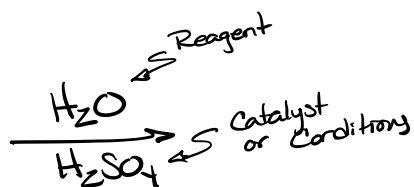
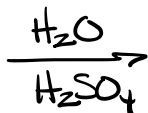
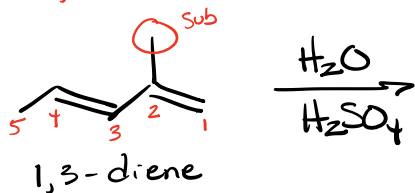


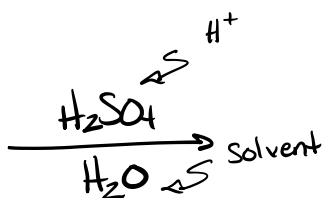
Alkene Problem Solving Session

#20 off of Alkene worksheet

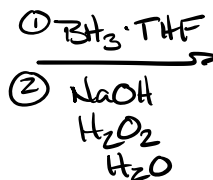
(E)-2-methyl-pent-1,3-diene \cong (E)-2-methyl-1,3-pentadiene



All reagents present
at same time

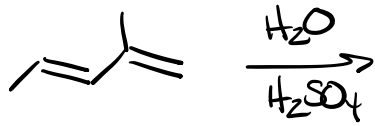


Stepwise



Two different steps
in the reaction



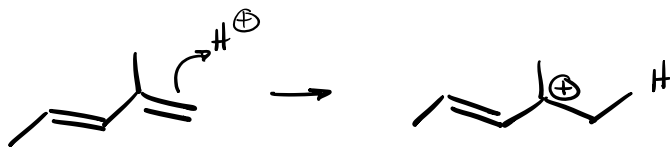


one approach is to see that:

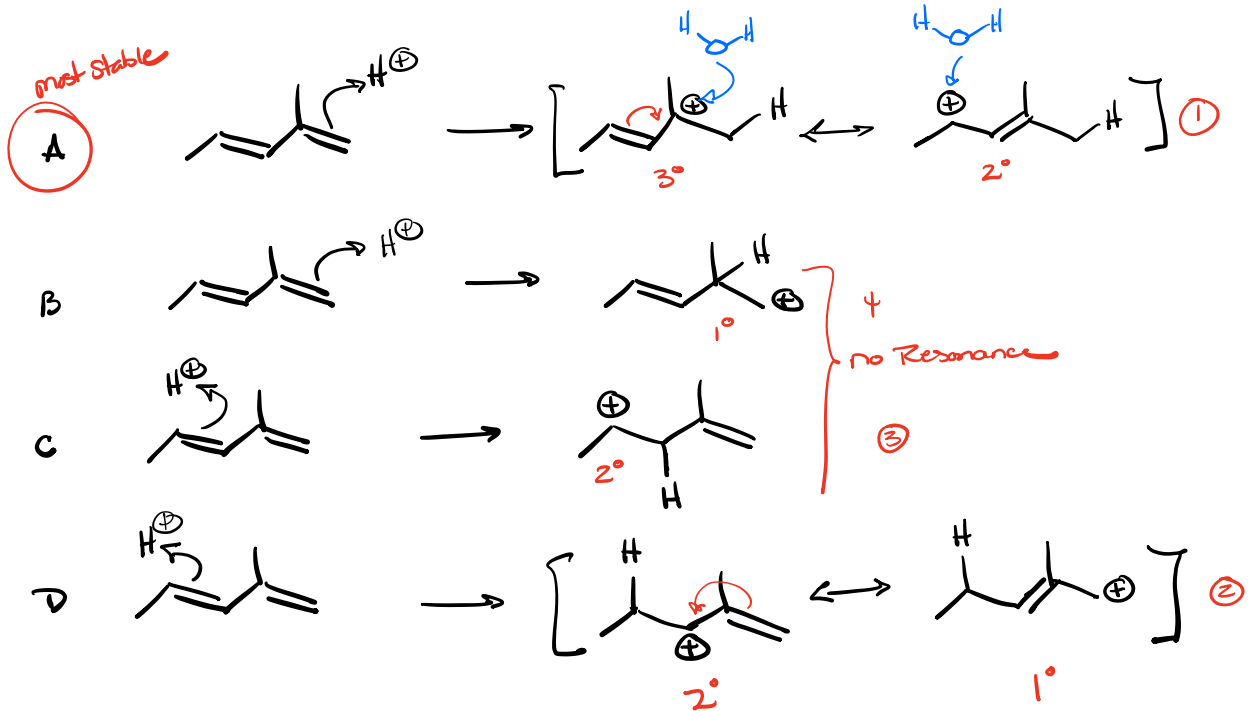


more stable C^+
 might miss Resonance

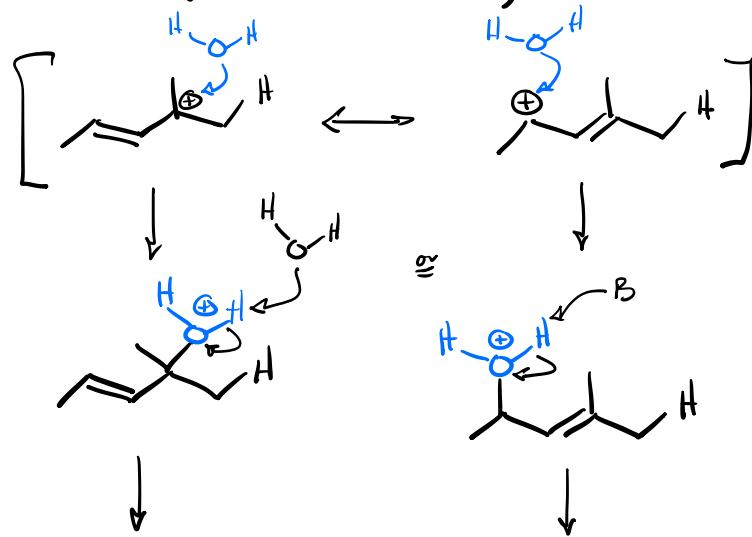
Thinking Backwards



2nd approach is to consider all options & evaluate each

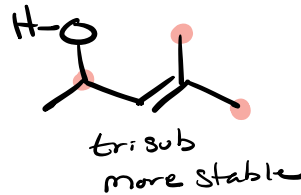
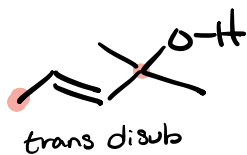


2nd Step - Attack by nucleophile (H₂O)

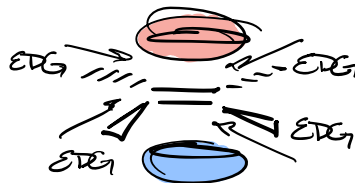
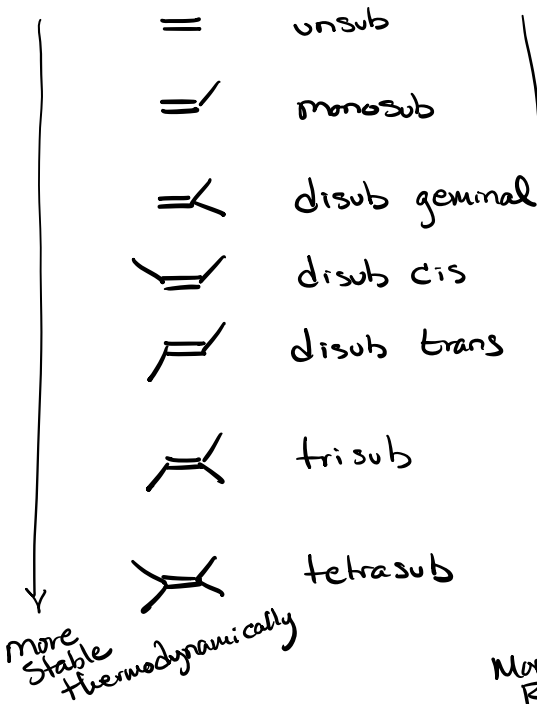


B = General base in solution

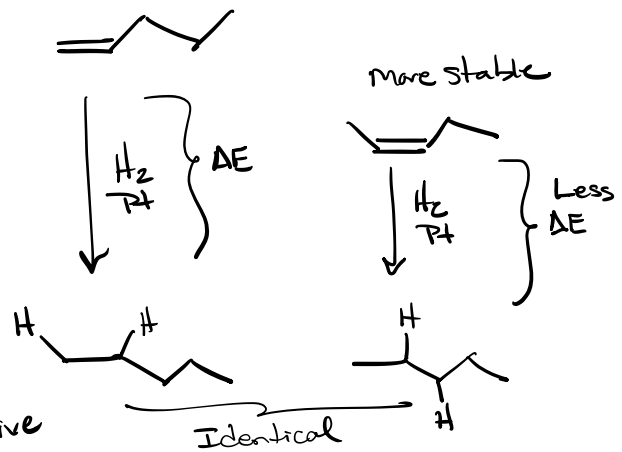
Two products

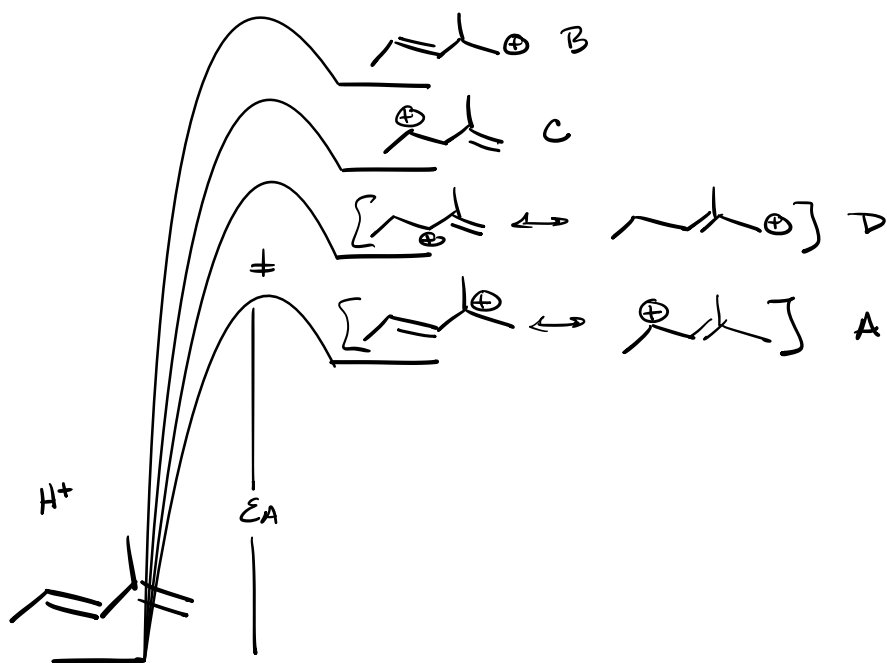


Degree of Substitution

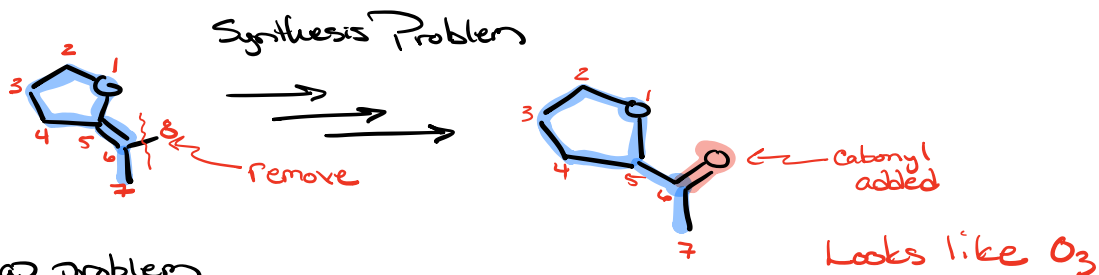


Stability





#1 Practice Problems Advanced



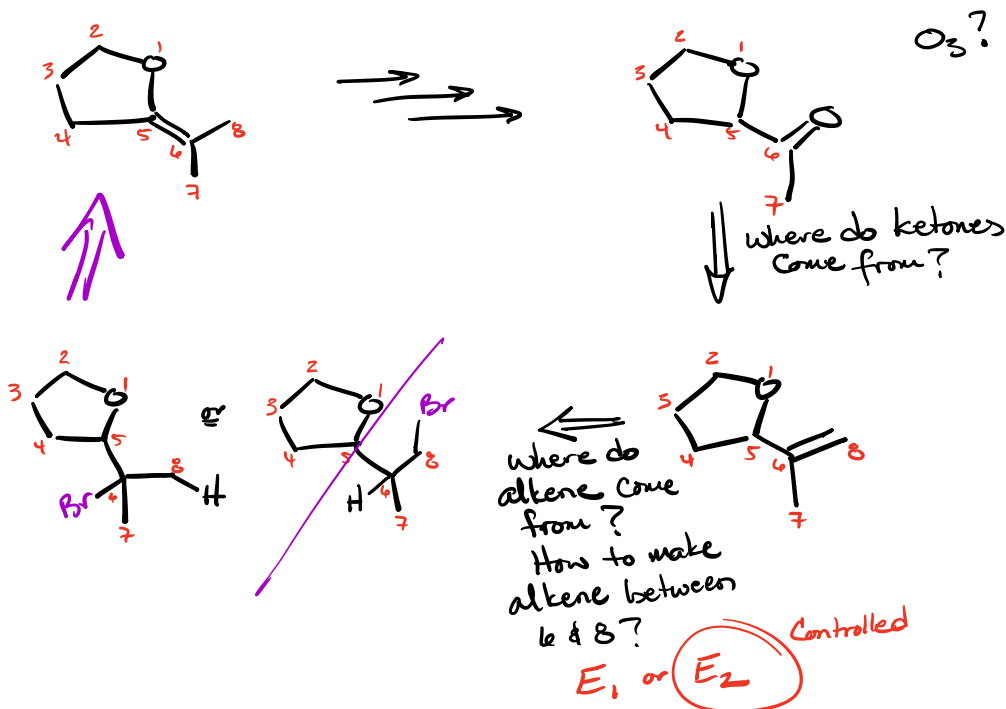
① Map problem
Color, #ing

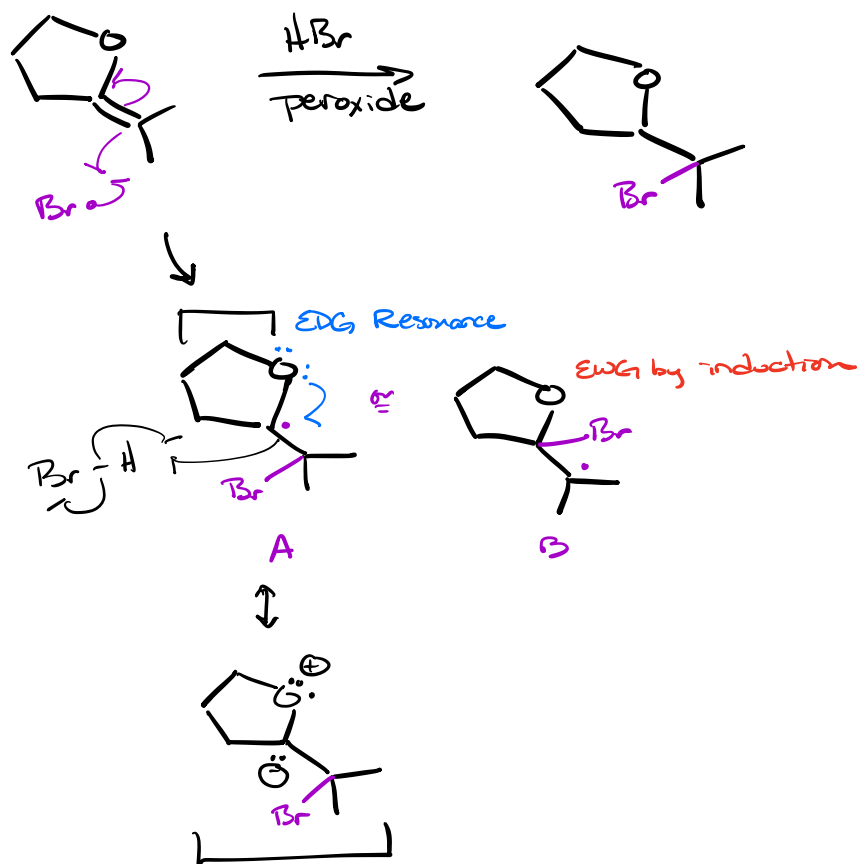
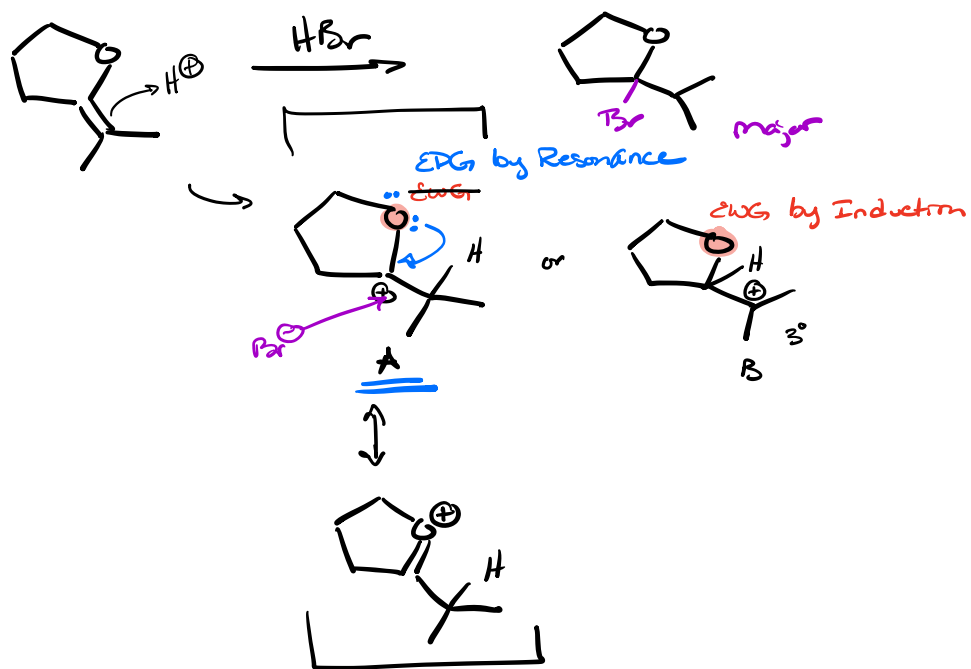
② Brainstorm Reactions



③ Retrosynthesis

\Rightarrow double arrow means working backwards





④ Forward direction

