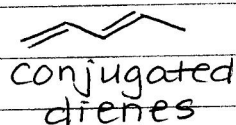


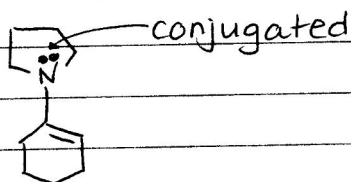
3/24/11

Chapter 20

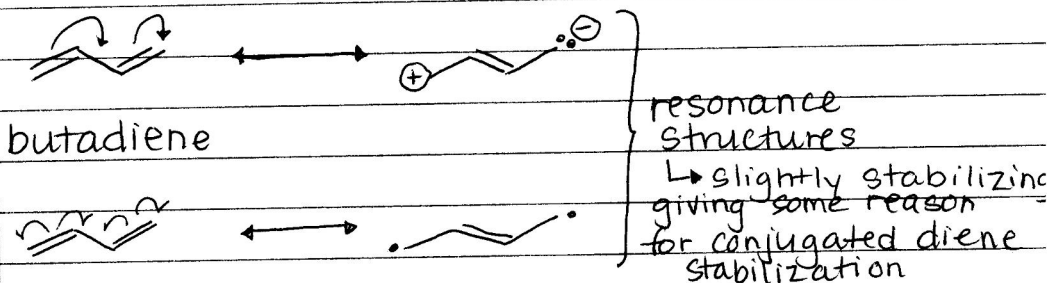
Dienes



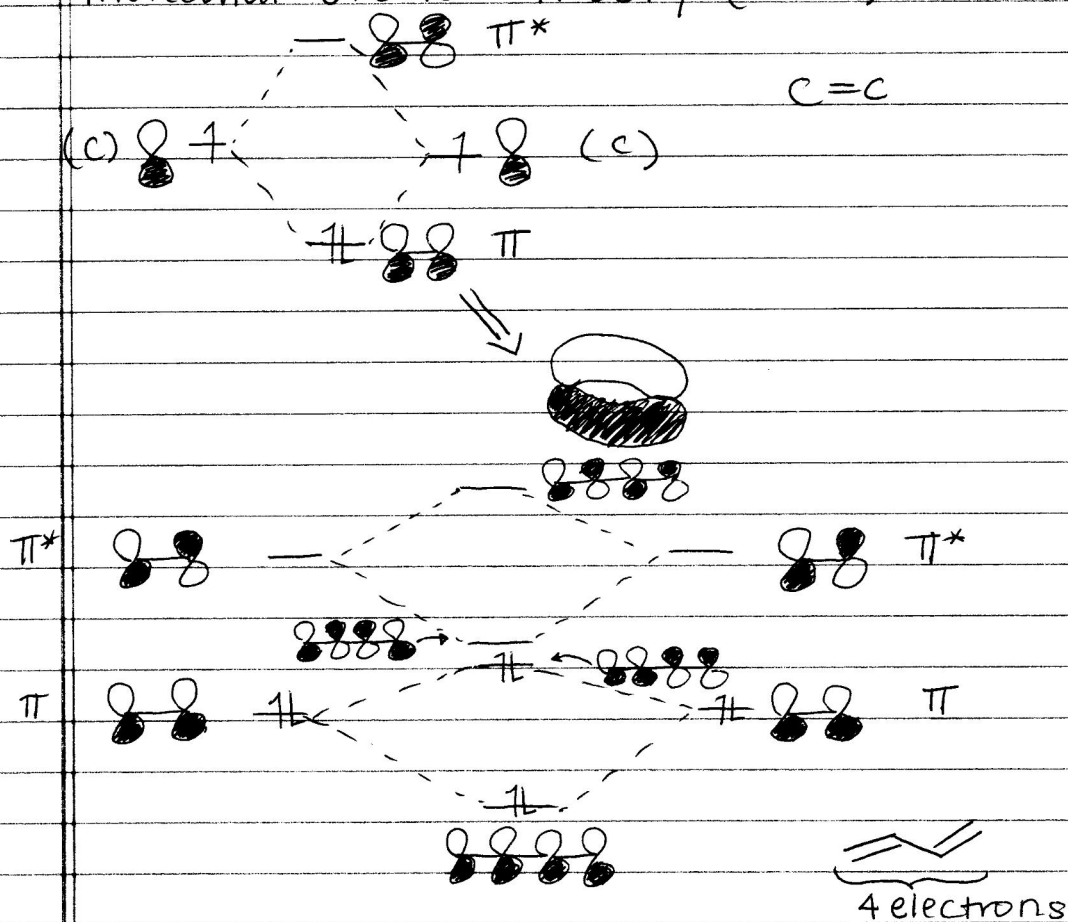
Conjugation - lone pairs or double bonds are directly attached to double bonds

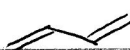


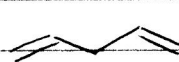
Conjugated dienes are more stable than isolated dienes



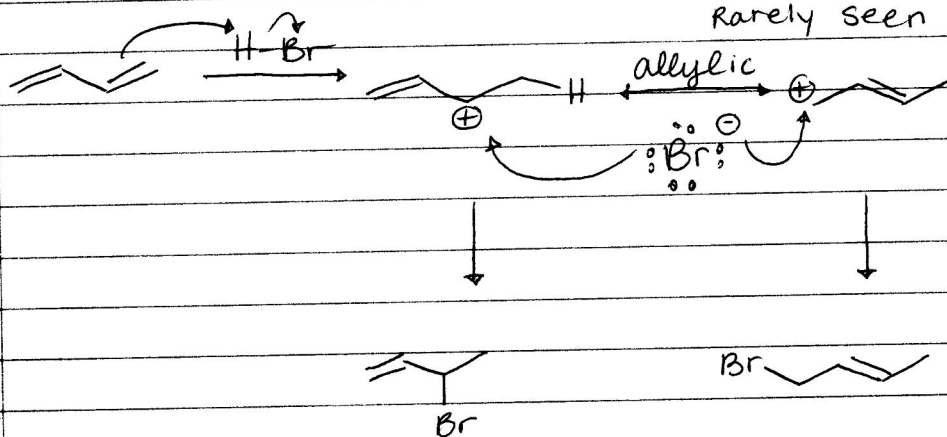
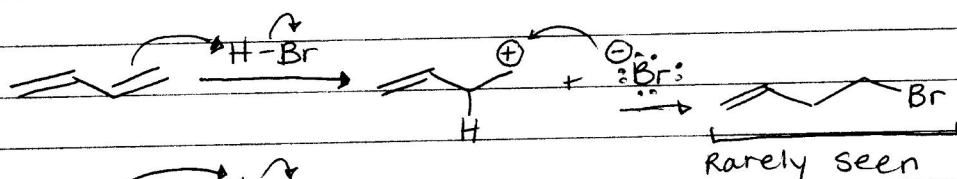
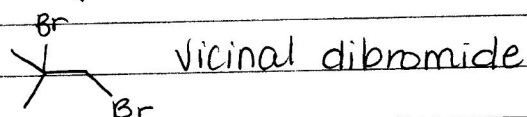
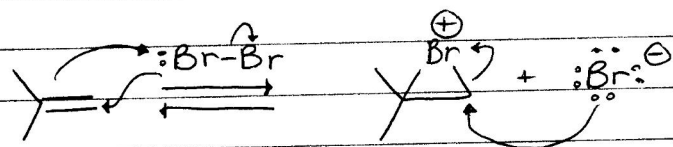
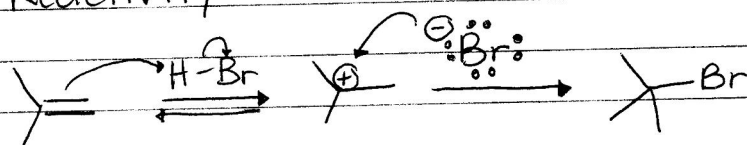
Molecular Orbital Theory (MOT)

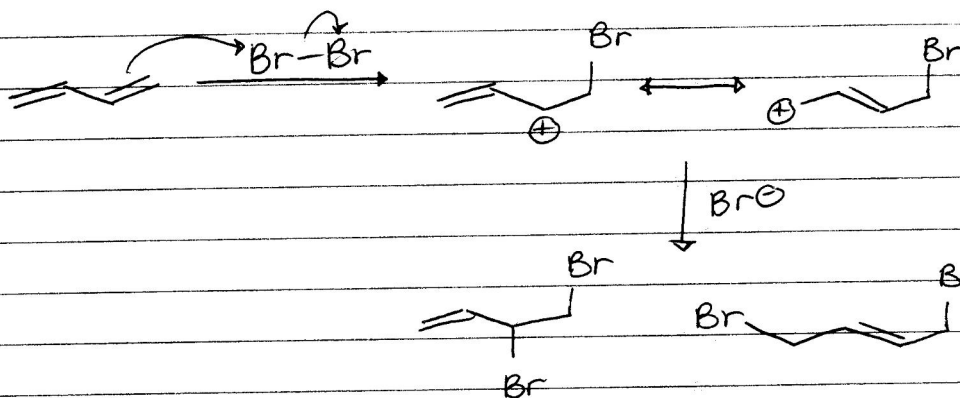


 π -bonds are delocalized when they are in conjugation

 not delocalized

Ramifications of Delocalization on Reactivity





-because we have an allylic intermediate (two resonance structures) → get two products