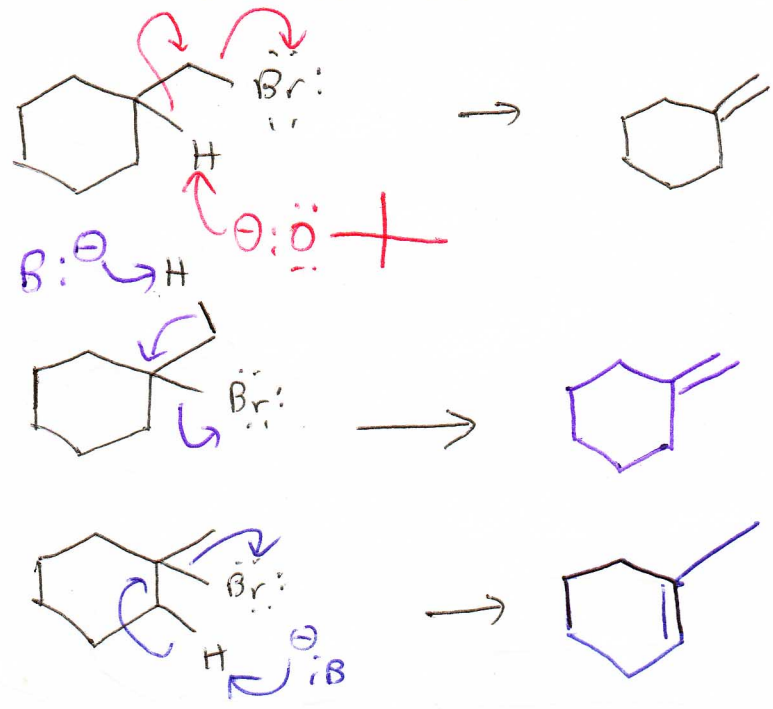
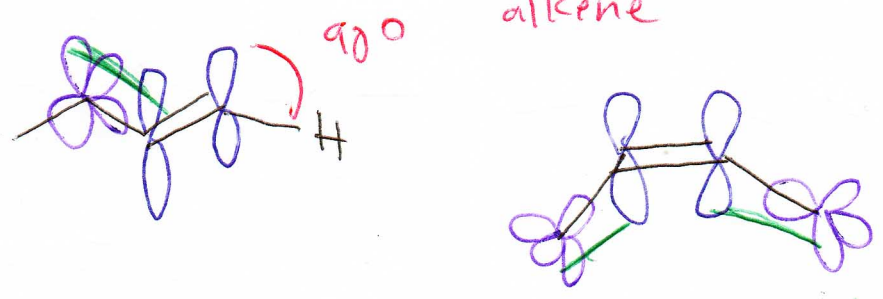
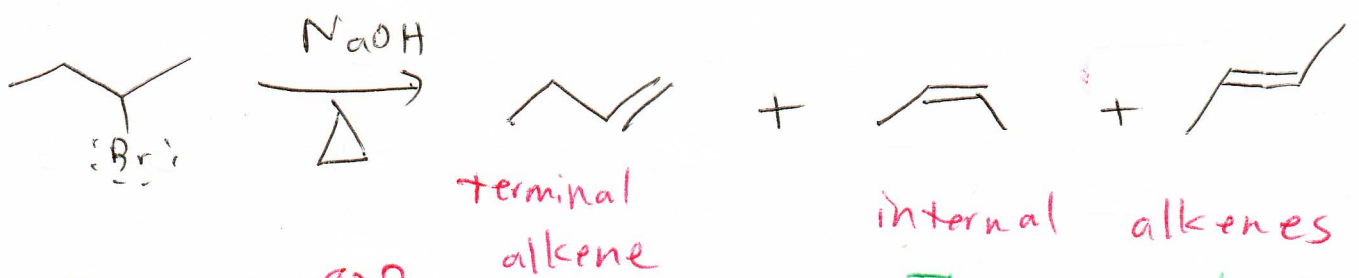


formation of an alkene, strong hindered basic nucleophile \longrightarrow E2
 substrate must have a leaving group

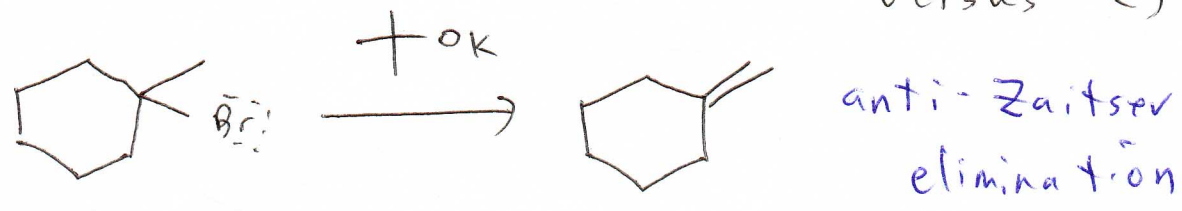
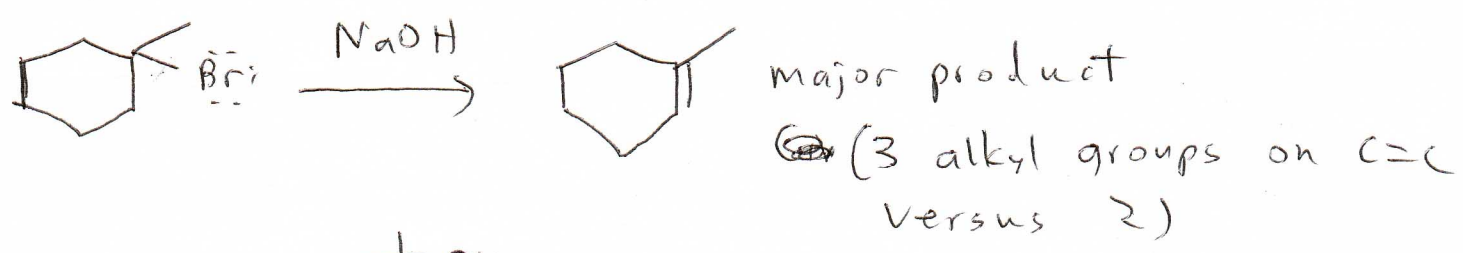


Zaitsev's rule - during eliminations, the more substituted alkene will normally form in greater quantity.



The more substituents located on an alkene, the more stabilized the π bond is due to hyperconjugation.

Trans alkenes are normally formed more easily than cis alkenes due to decreased steric hindrance.



t-BuOK is sterically hindered, so it is less favorable in terms of kinetics for it to remove a 2° hydrogen vs 1° hydrogen.

