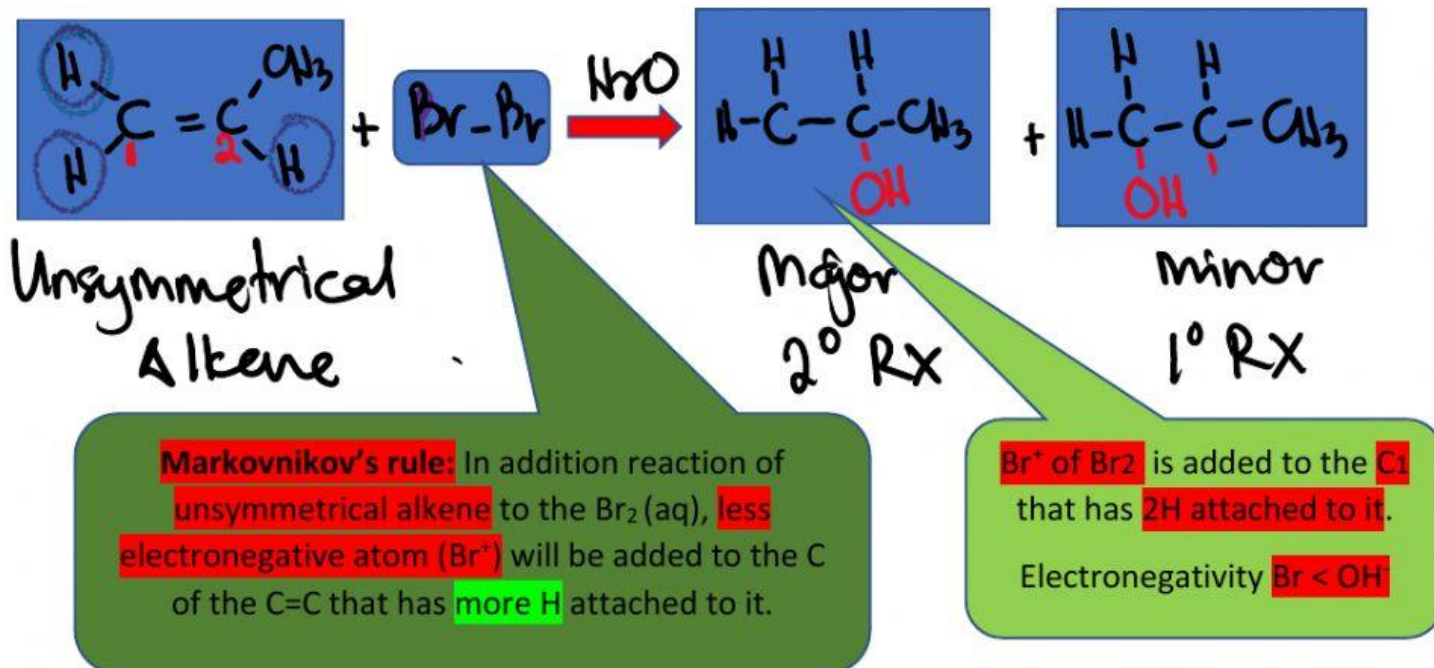
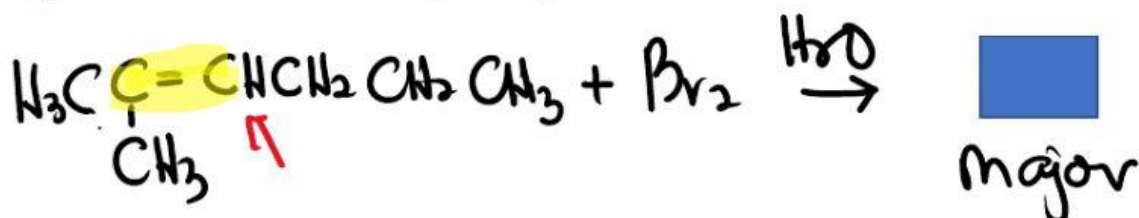
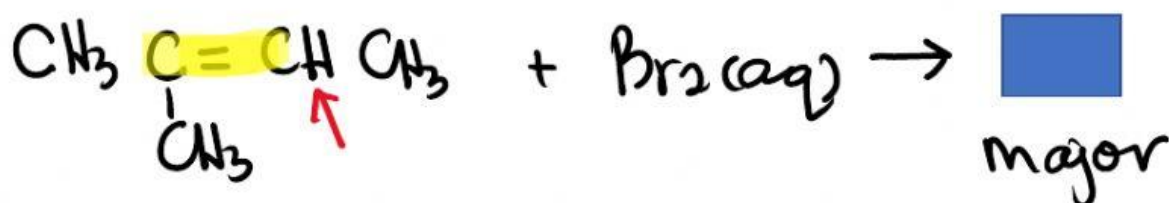


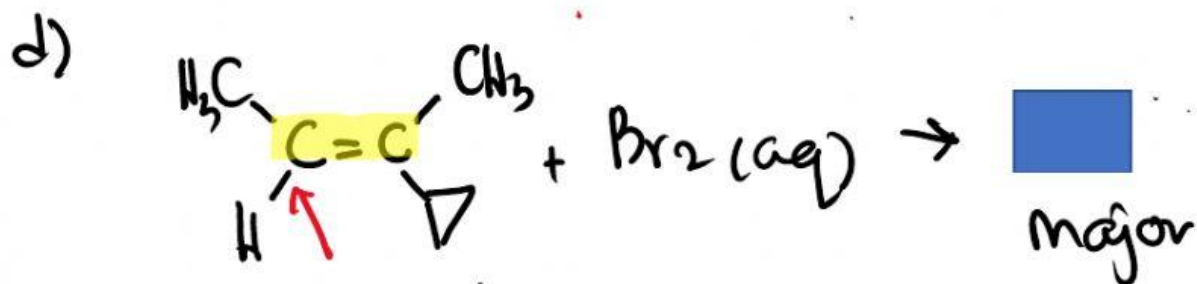
Chemical Reaction of alkenes

Types of reaction: Electrophilic addition reaction

Name of reaction: Reaction of alkene with bromine water @ $\text{Br}_2(\text{aq}) / \text{Br}_2 + \text{H}_2\text{O}$ 

Additional Exercise:

a) Reaction of 2-methyl-2-heptene with $\text{Br}_2 + \text{H}_2\text{O}$ b) Reaction of 2-methylbut-2-ene with $\text{Br}_2 + \text{H}_2\text{O}$ 



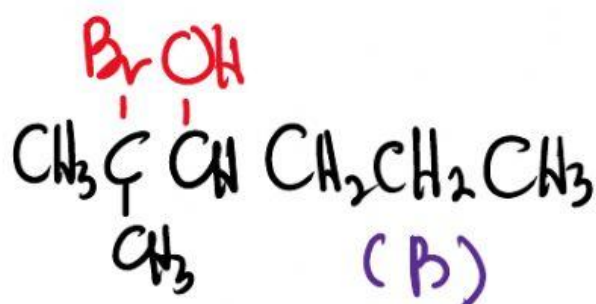
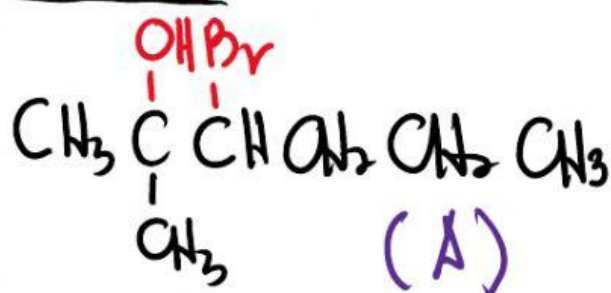
Due to presence of peroxide:

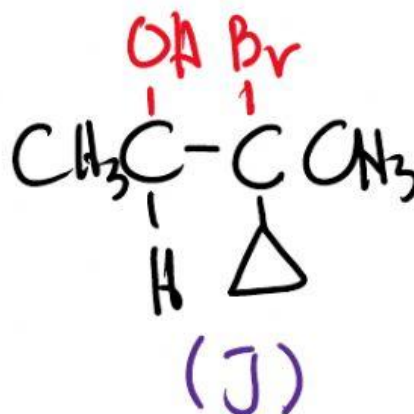
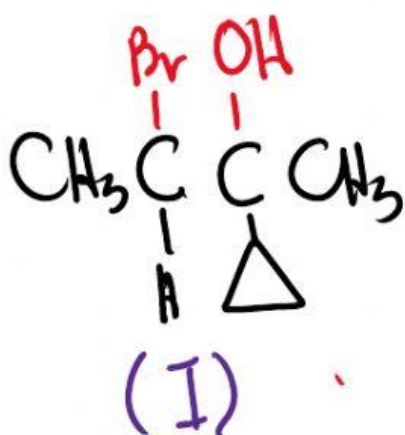
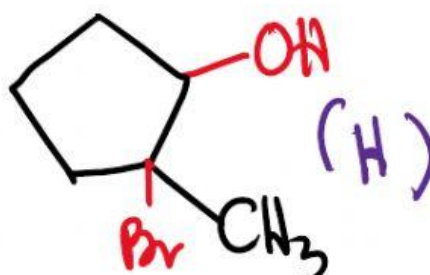
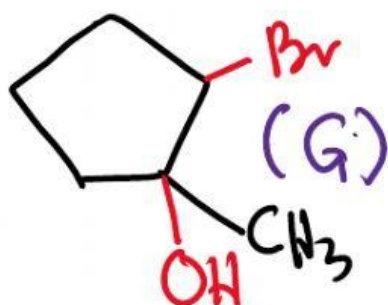
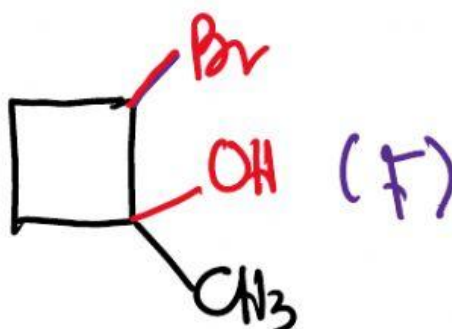
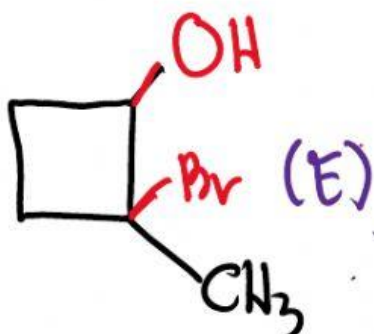
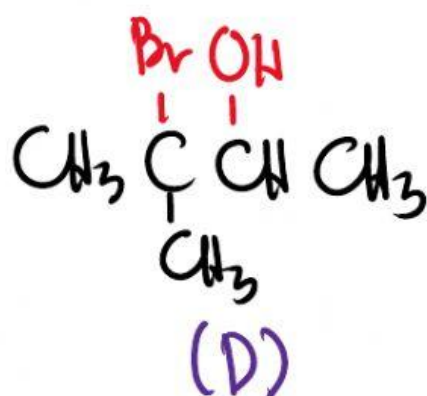
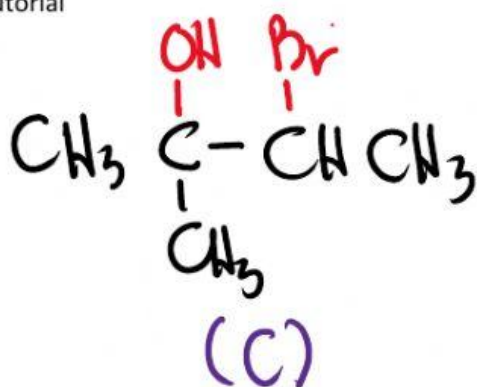
Anti-Markovnikov's rule: In addition reaction of unsymmetrical alkene to $\text{Br}_2(\text{aq})$, less electronegative atom (Br^+) will be added to the C of the $\text{C}=\text{C}$ that has LESS H attached to it.

Common peroxides:



Answer:





Br is less electronegative than O in the OH⁻.

