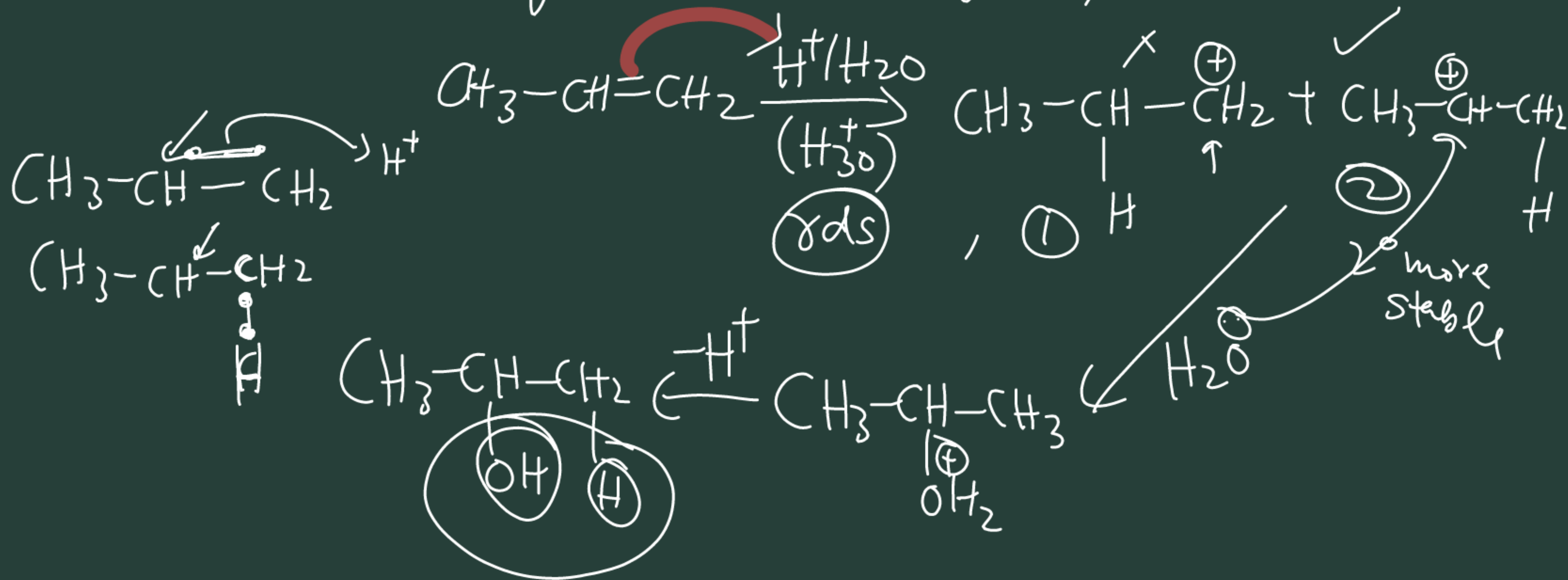


Preparation of alcohol from alkene

① Hydration of alkene (acid catalysed)



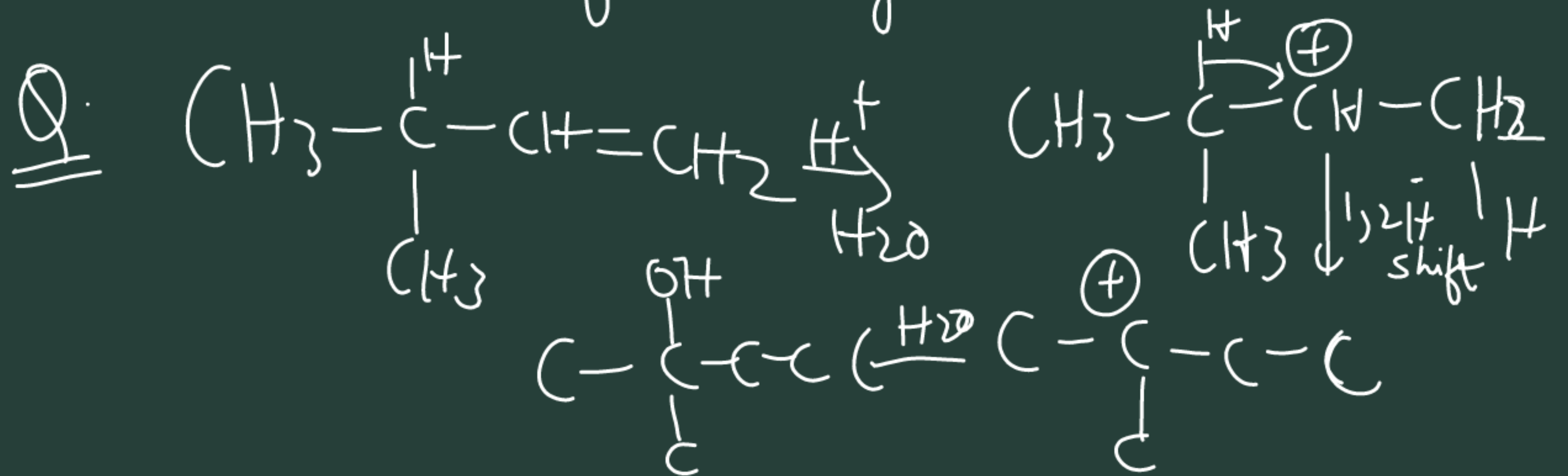
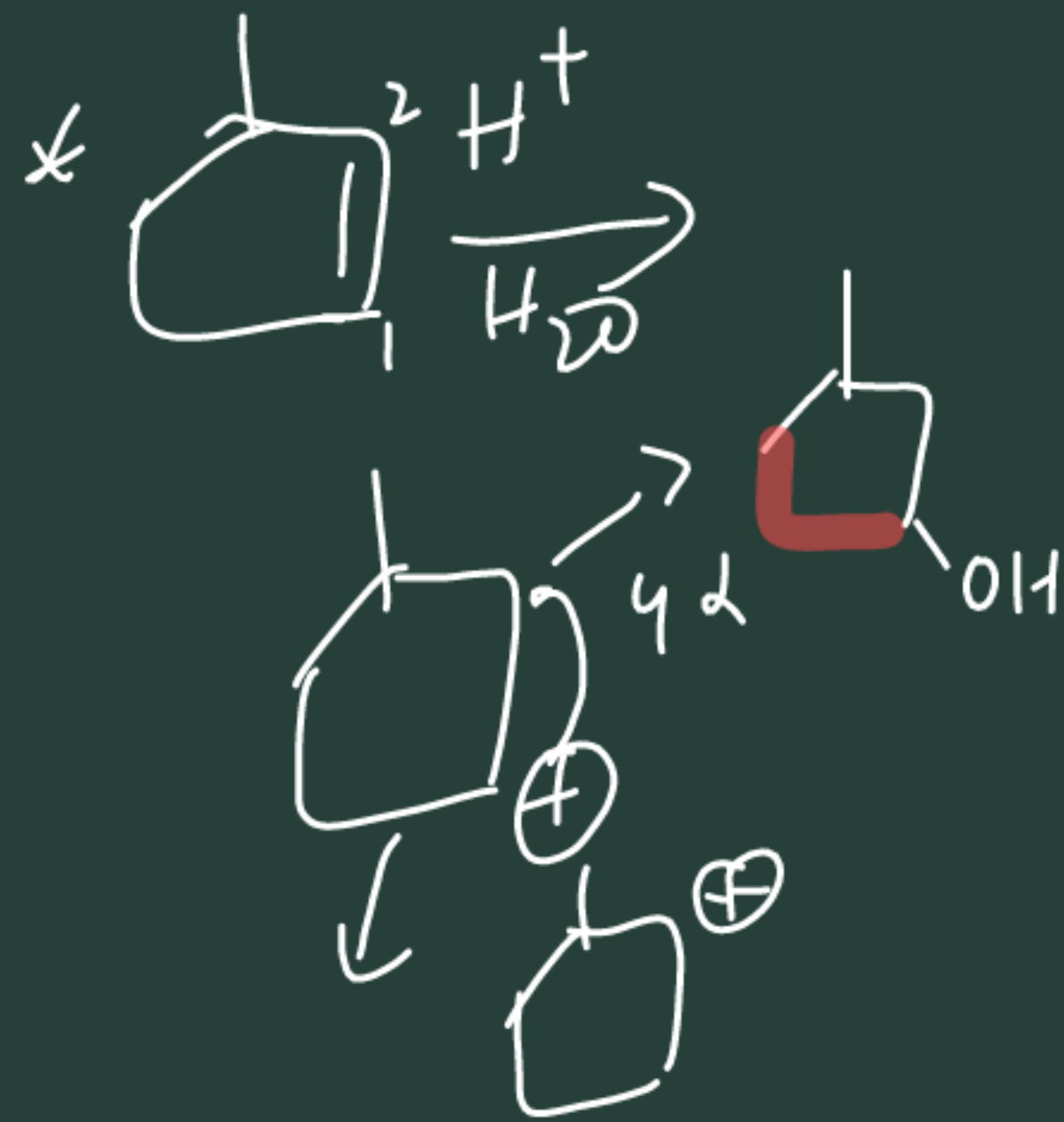
Characteristics of $\text{S}_{\text{N}}1$

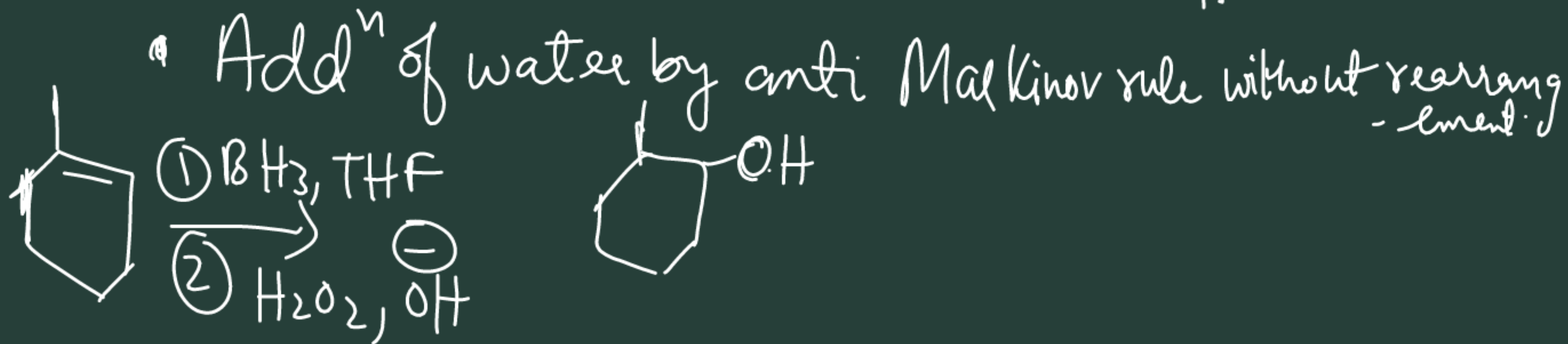
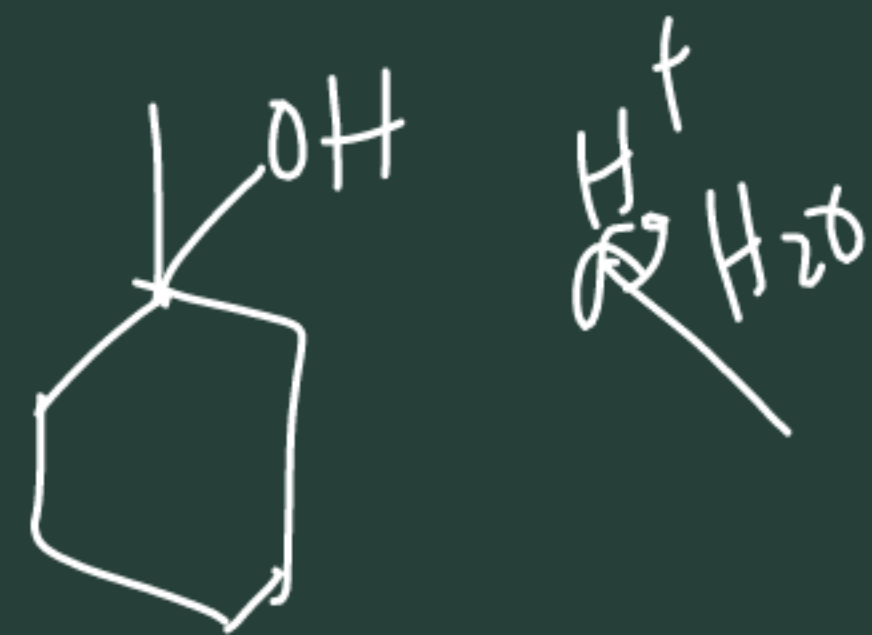
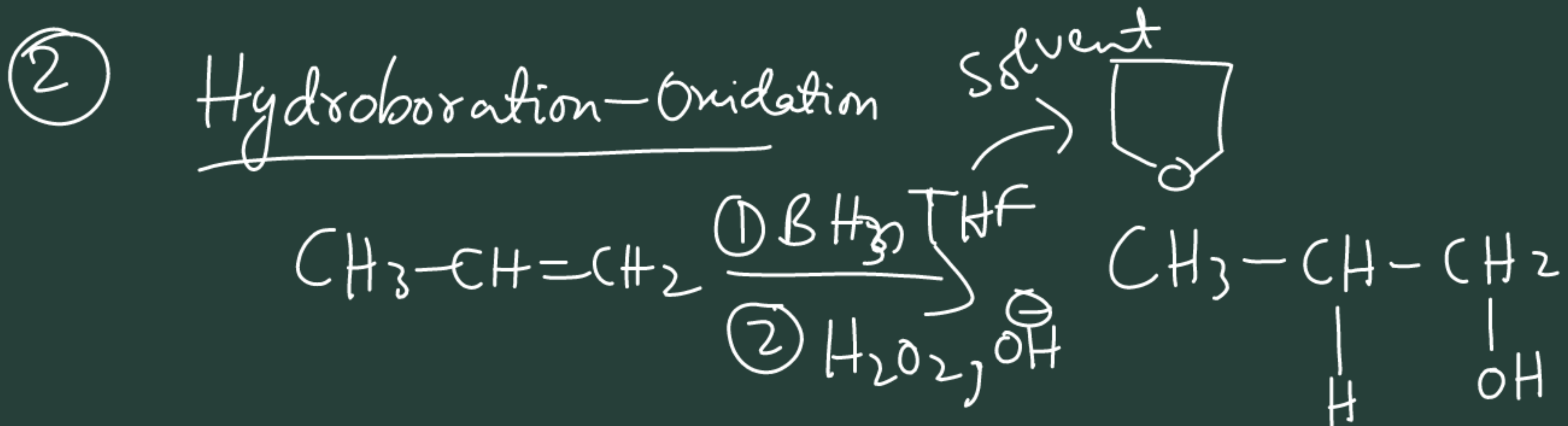
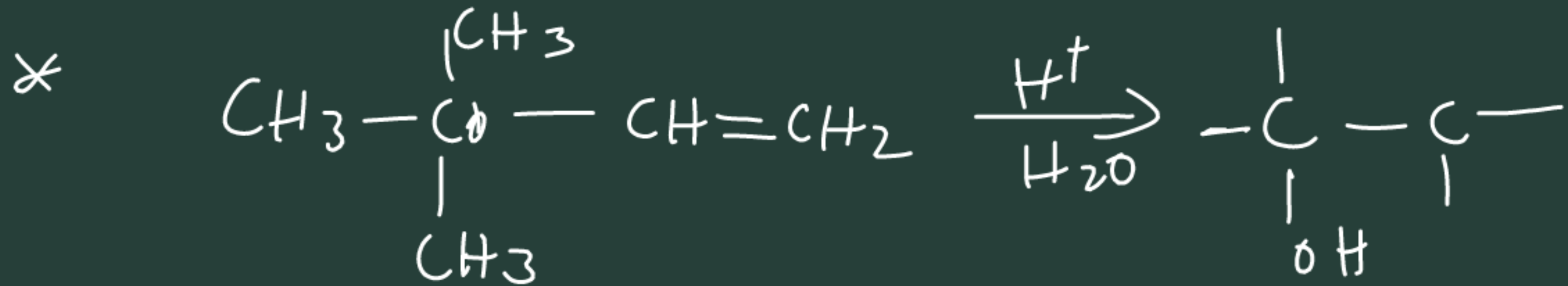
1) E^{\oplus} addⁿ rxn

2) Carbocation is intermediate. Formation of Carbocation is the rds.

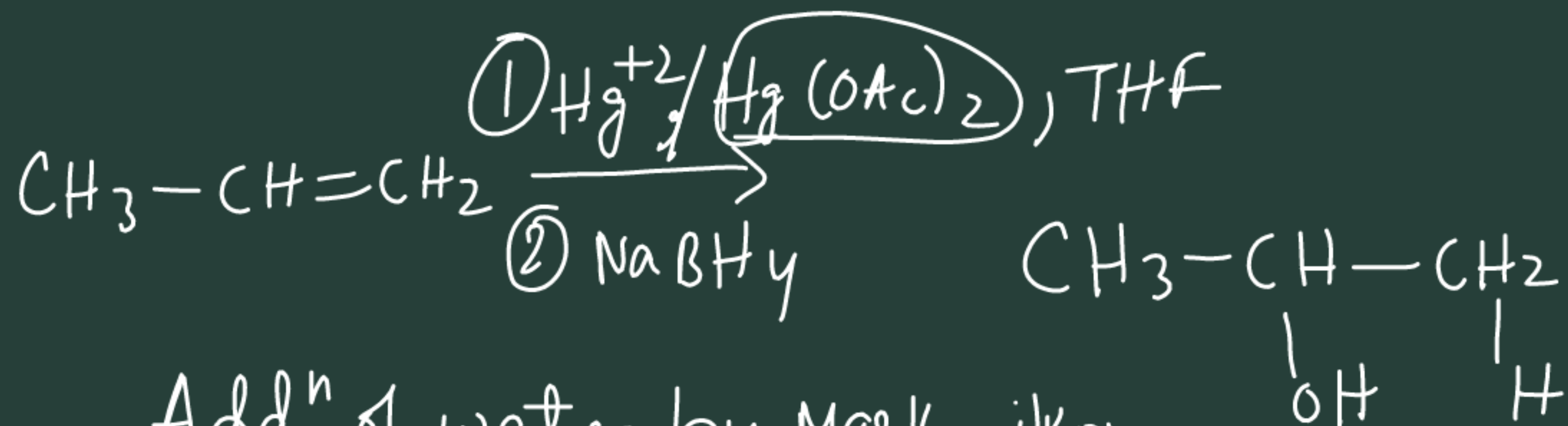
3) Rearrangement will happen.

4) Overall addⁿ of water by Markovnikov rule.

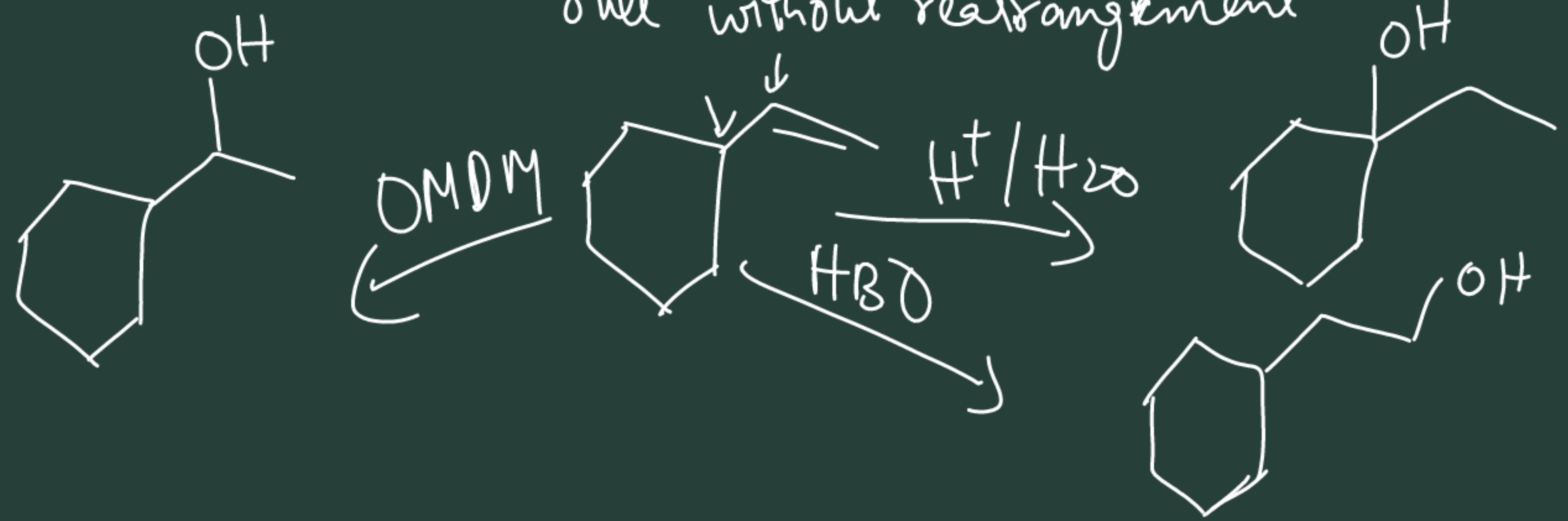




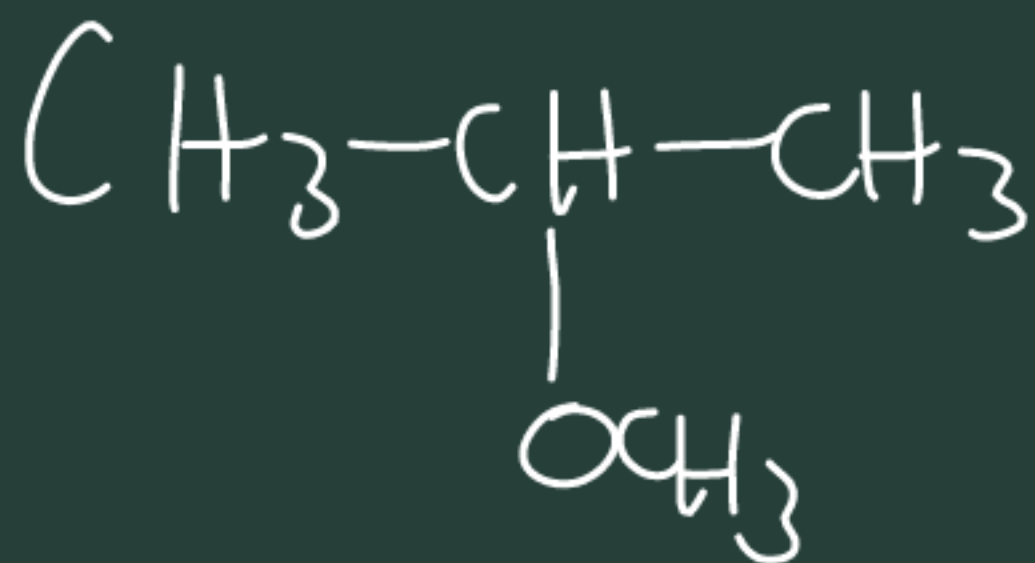
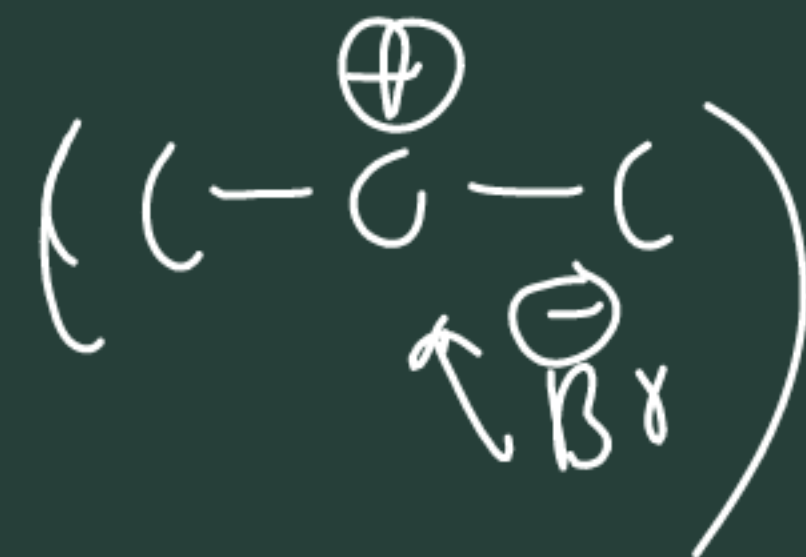
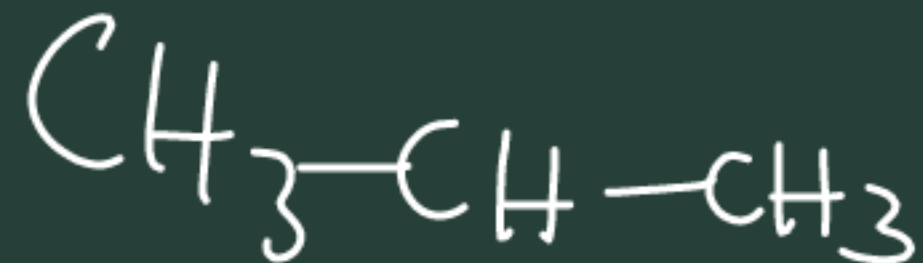
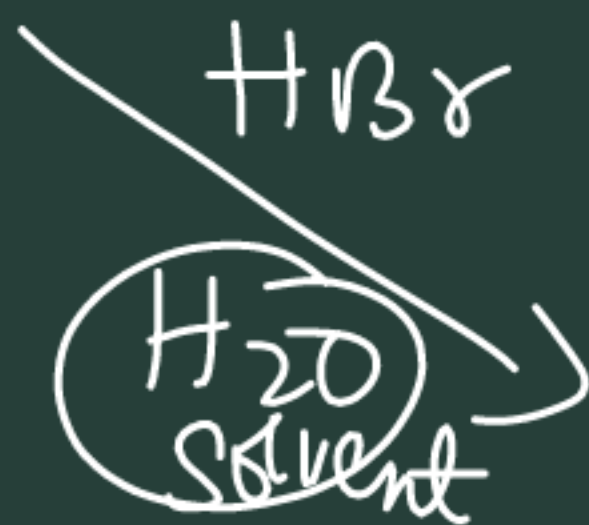
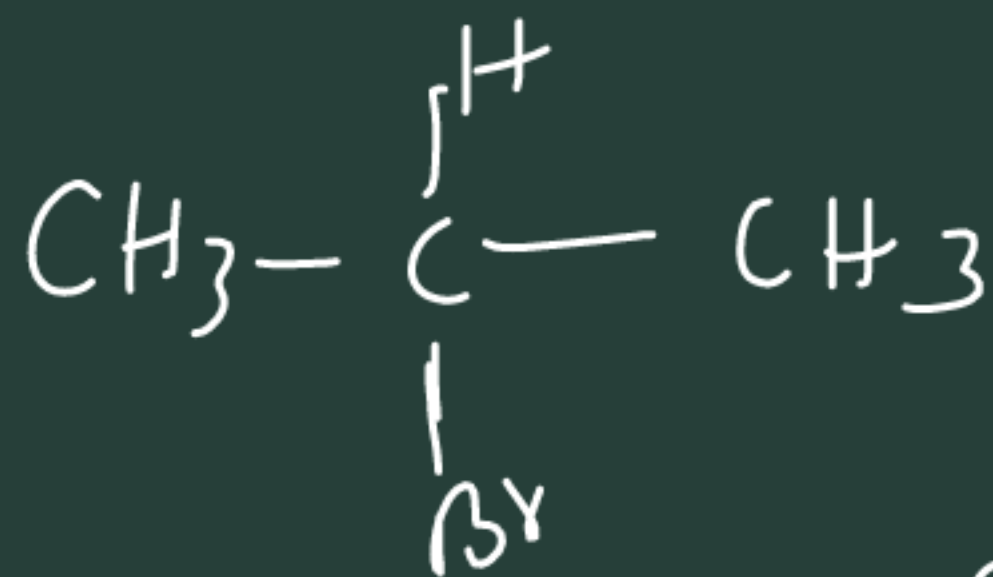
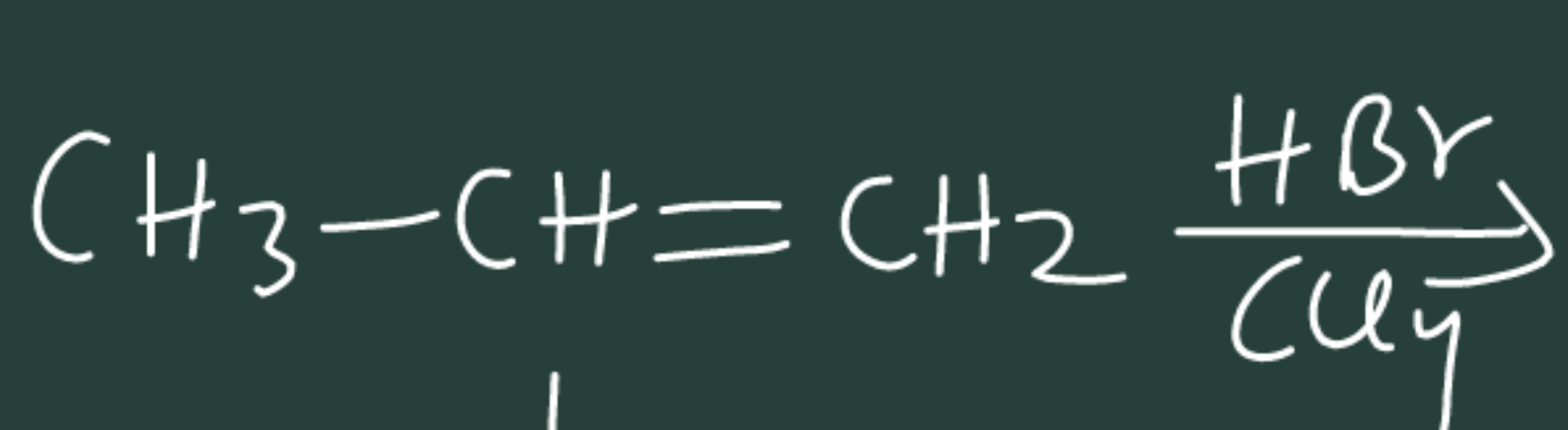
③ OMDM (Oxymercuration Demercuration)



Addⁿ of water by Markovnikov rule without rearrangement



④



more conc. of solvent
H₂O will attack