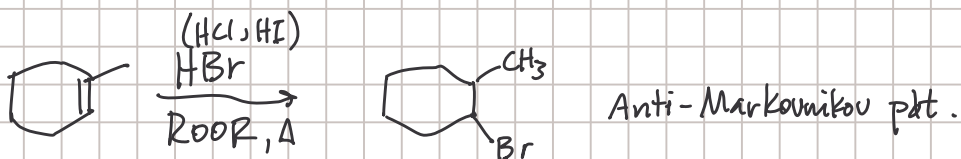
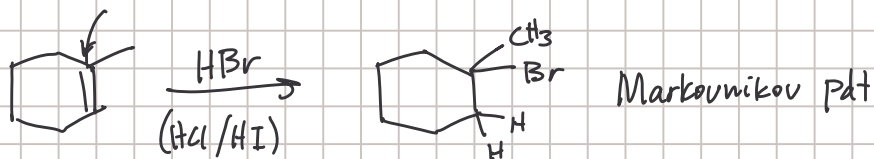


# Ch 8

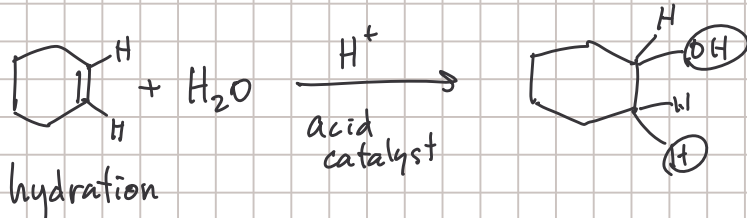
Note Title

11/22/2005

## Markovnikov vs Anti-Markovnikov



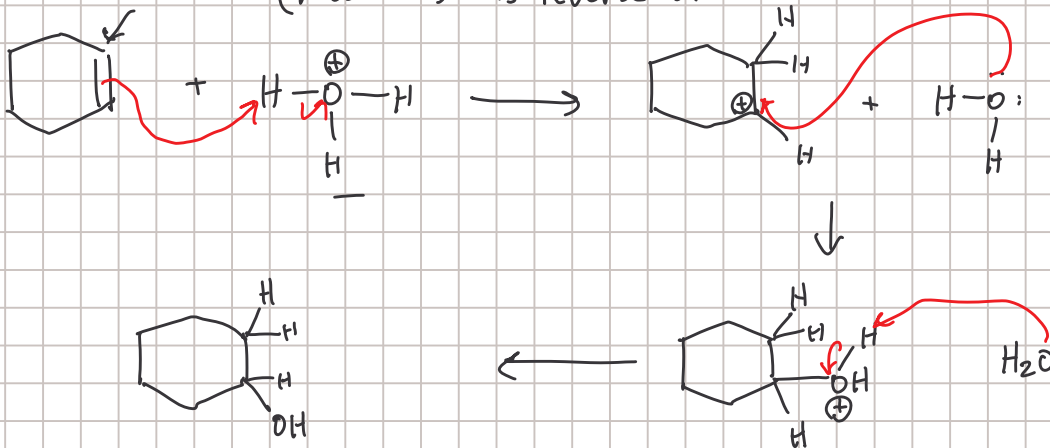
## Hydration of alkenes



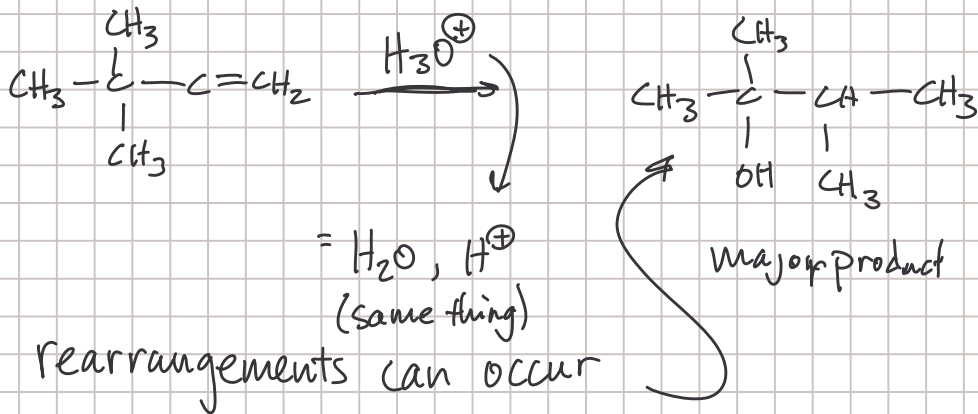
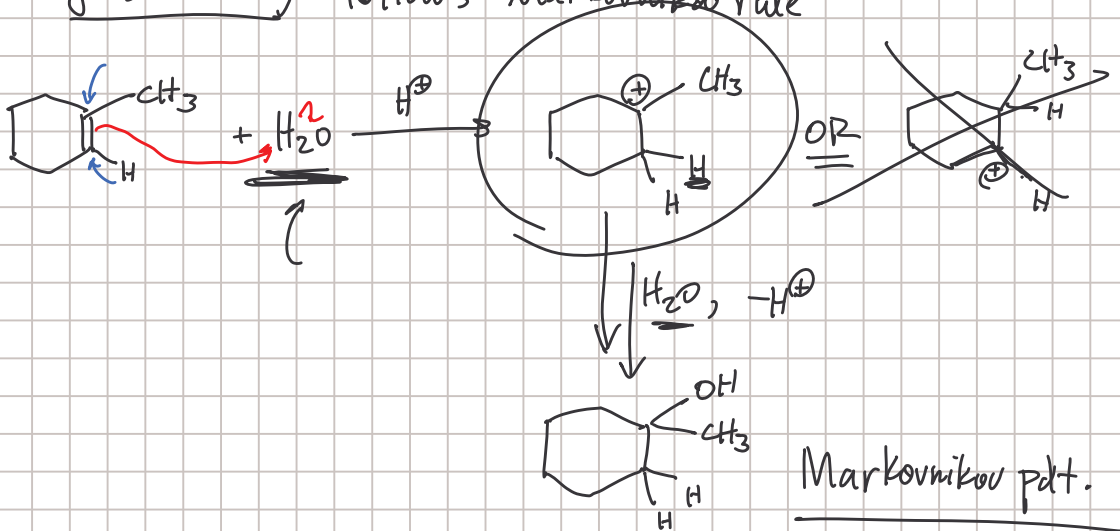
## Microscopic reversibility

reversible reactions will have a common mechanism

(mechanism is reverse of dehydration)



Regioselectivity follows Markovnikov rule

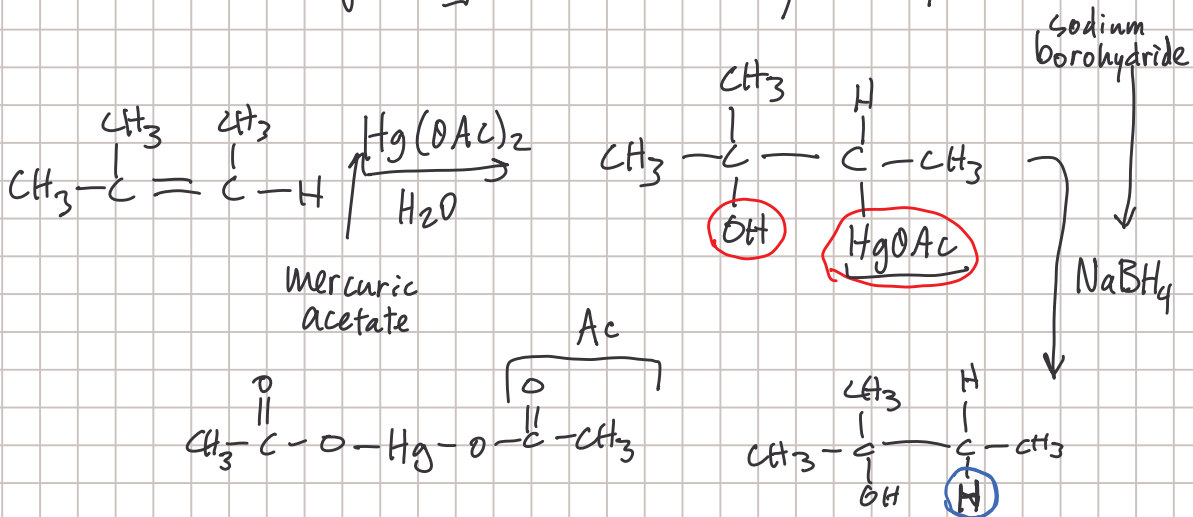


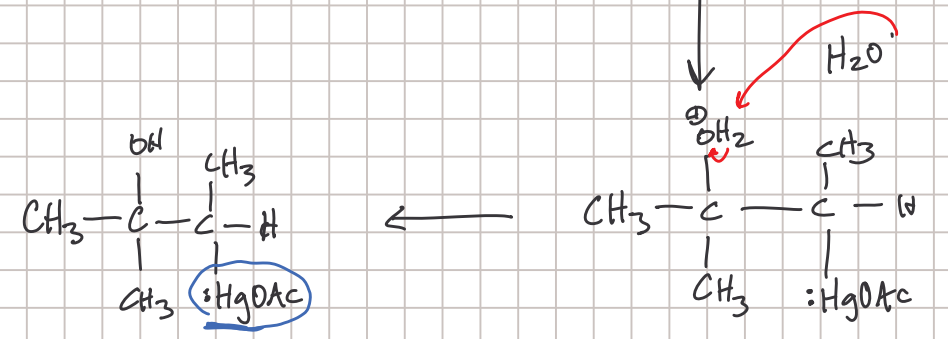
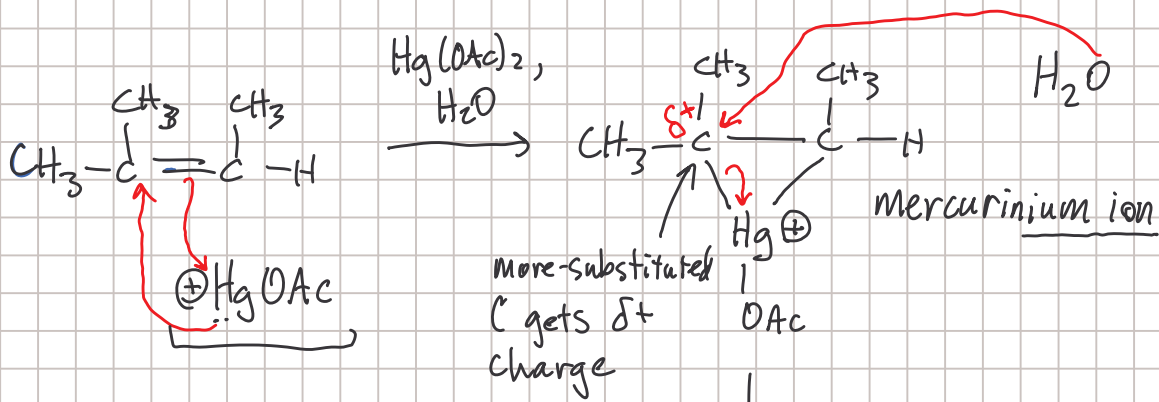
Oxymercuration - demercuration

Markovnikov addn of H<sub>2</sub>O across dbl bond

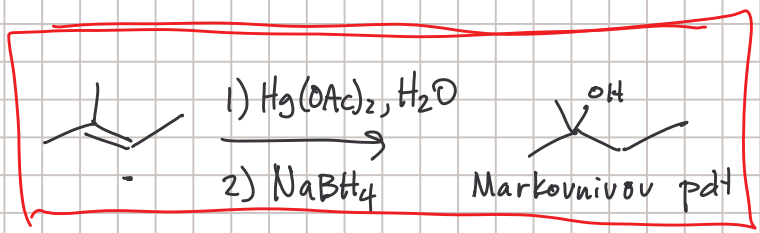
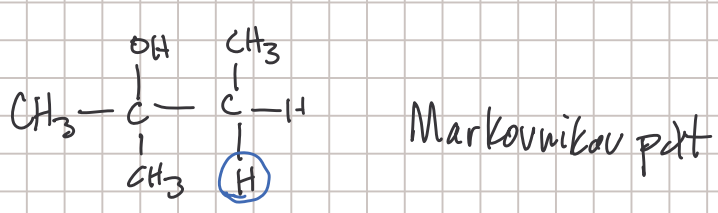
- 1. higher yield
- 2. solubility
- 3. no rearrangements

same pds as acid-catalyzed hydration





$\text{NaBH}_4 = \text{reducing agent}$        $:\text{H}^{\ominus} = \text{hydride}$



# Anti-Markovnikov hydration of alkenes

## Hydroboration-oxidation

