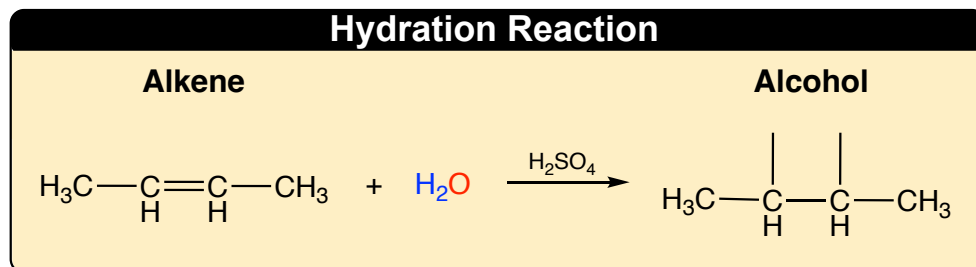


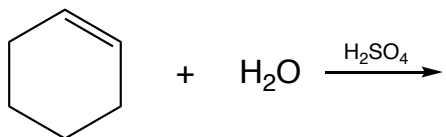
CONCEPT: HYDRATION REACTIONS

- Acid-catalyzed addition of water to an alkene produces an _____.

□ ___ H and ___ OH are added to ___ π bond.



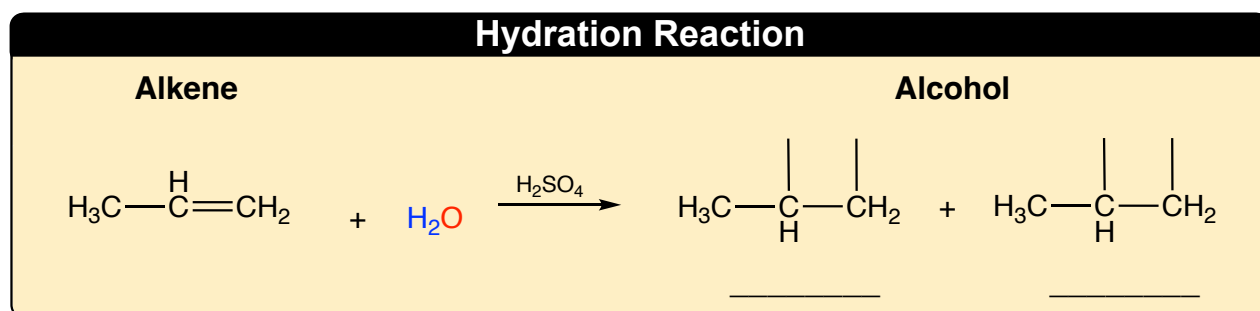
EXAMPLE: Complete the following hydration reaction.



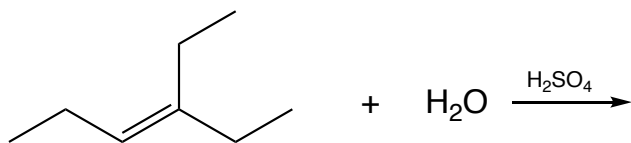
Markovnikov's Rule

- Addition of H_2O in asymmetric alkenes follows *Markovnikov's rule*.

□ **Markovnikov's Rule:** _____ atom is added to C with _____ Hs, _____ is added to C with _____ Hs.

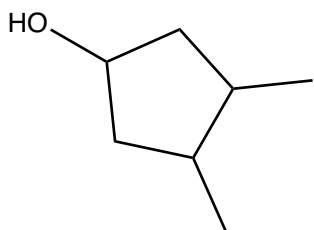


EXAMPLE: Complete the following hydration reaction.



CONCEPT: HYDRATION REACTIONS

PRACTICE: Draw and name an alkene that would be used to produce the following alcohol through a hydration reaction.



PRACTICE: Provide major and minor products for the hydration of 4-chloro-3-ethyl-1-hexene.