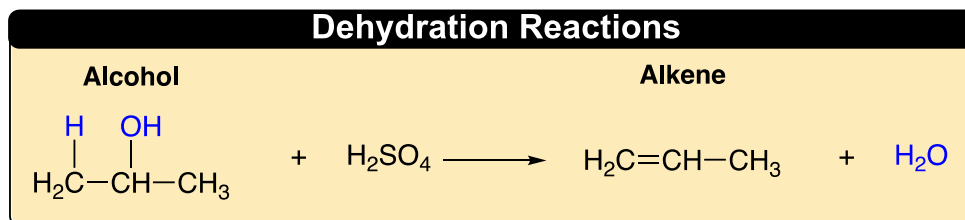
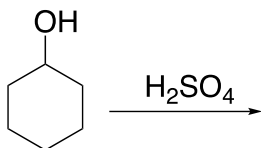


CONCEPT: ALCOHOL REACTIONS: DEHYDRATION REACTIONS

- Under this type of reaction _____ reacts with an alcohol to form an alkene through the loss water.
 - To form the double bond the alcohol carbon loses its _____ and its neighboring carbon loses an _____ atom.

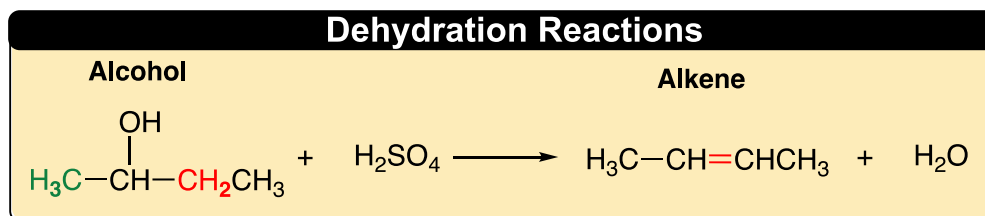


EXAMPLE: Determine the elimination product formed in the following reaction.

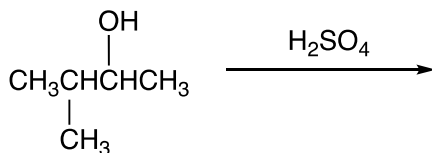


Zaitsev's Rule

- Loss of H_2O follows *Zaitsev's Rule*.
 - Used when the neighboring carbons have _____ numbers of Hs.
 - **Zaitsev's Rule:** _____ atom is lost from alcohol C, _____ atom is lost from neighboring C with _____ Hs.

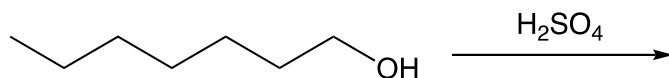


EXAMPLE: Determine the elimination product formed in the following reaction.



CONCEPT: ALCOHOL REACTIONS: DEHYDRATION REACTIONS

PRACTICE: Determine the name of the alkene product formed in the following dehydration reaction.



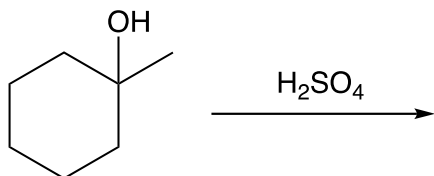
a) *cis*-1-heptene

b) 2-heptene

c) 1-heptene

d) *trans*-1-heptene

PRACTICE: Determine the name of the alkene product formed in the following dehydration reaction.



a) 1-methylcyclohexene

b) 4-methylcyclohexene

c) 2-methylcyclohexene

d) 3-methylcyclohexene