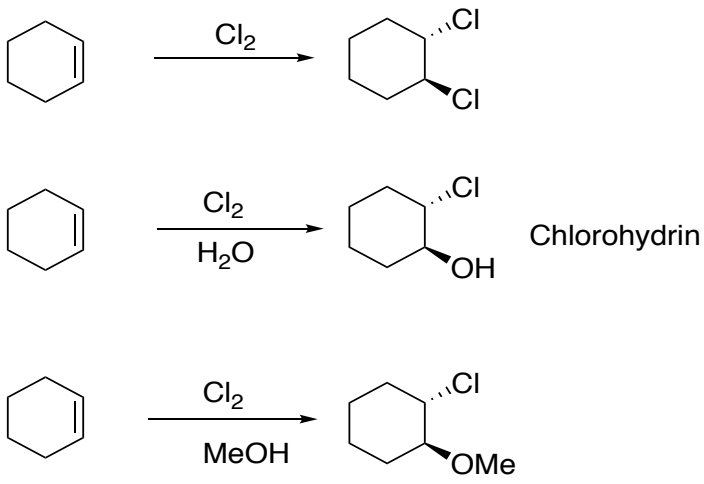
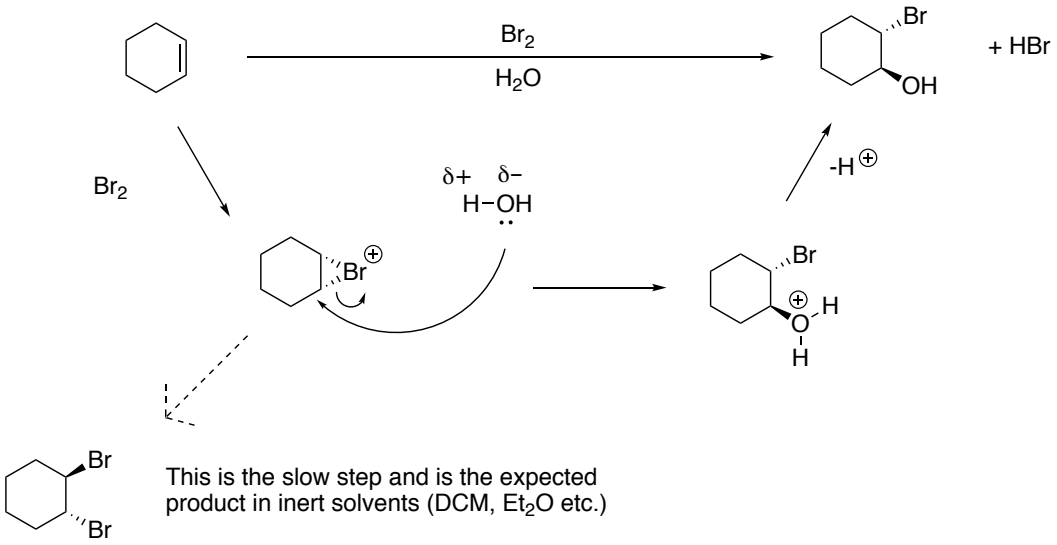
Ex #4) Cyclohexene

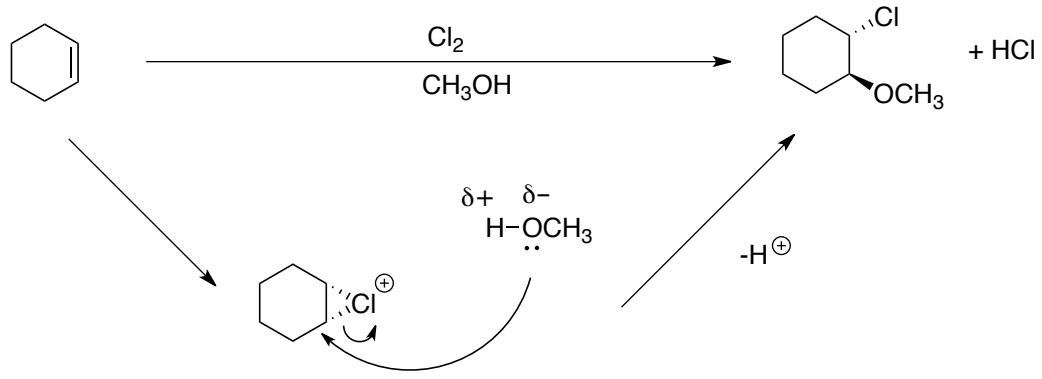


Mechanisms:

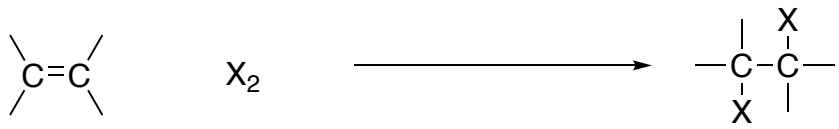
#1) Addition of an alcohol functional group (in H_2O)

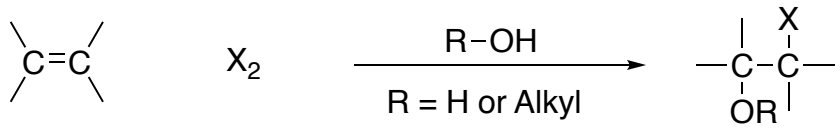


#2) Addition of an ether functional group (in CH_3OH)



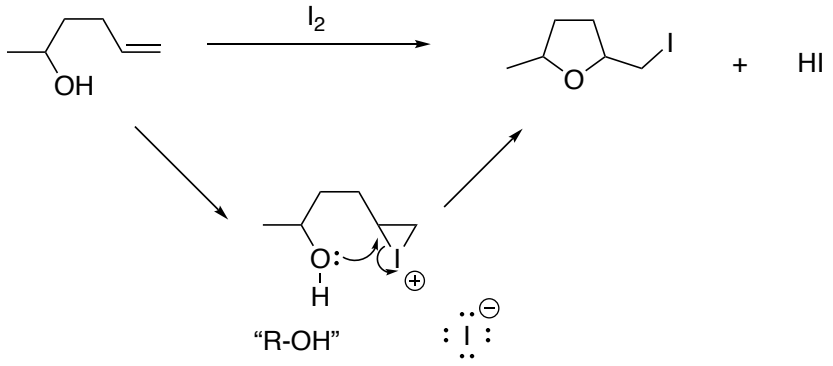
Summary:





Will add in Markovnikov fashion

Ex #6)



In the above example, the intramolecular reaction (meaning within the same molecule) occurs much much FASTER than the intermolecular reaction (between two or more molecules). This means that the –OH group will attack the iodonium ion much faster than the I^- group because it is an intramolecular reaction.

Intramolecular reaction almost always beats intermolecular reactions.

Ex #7)