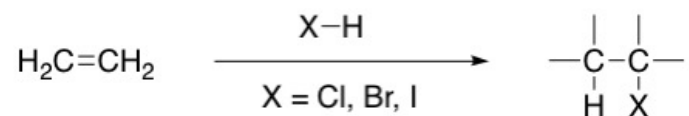
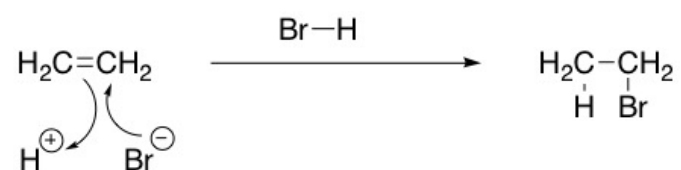
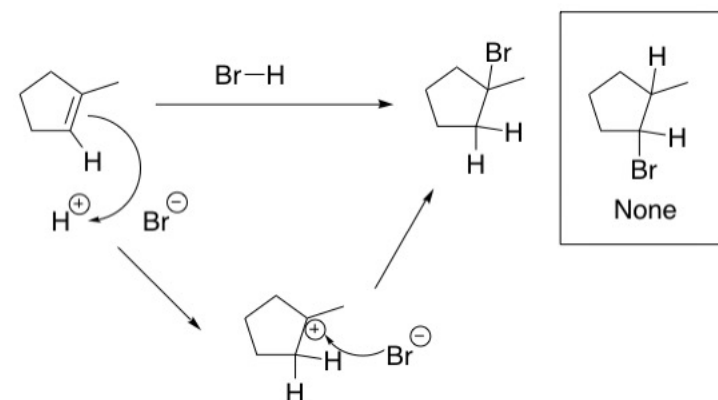


Addition Reactions

Hydrogen Halide (H-X)



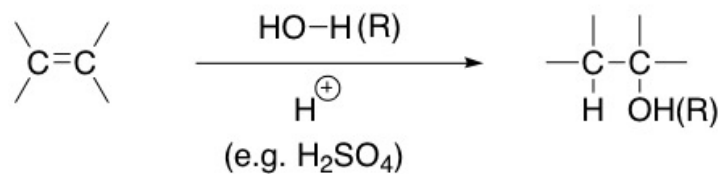
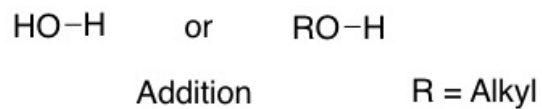
Reaction generally leads to syn/cis addition

Example 1: Ethylene**Example 2: 1-Methylcyclopent-1-ene**

-Markovnikov addition

RECALL: Carbocation stability $3^\circ > 2^\circ > 1^\circ > \text{CH}_3^+$

Hydration and ether formation

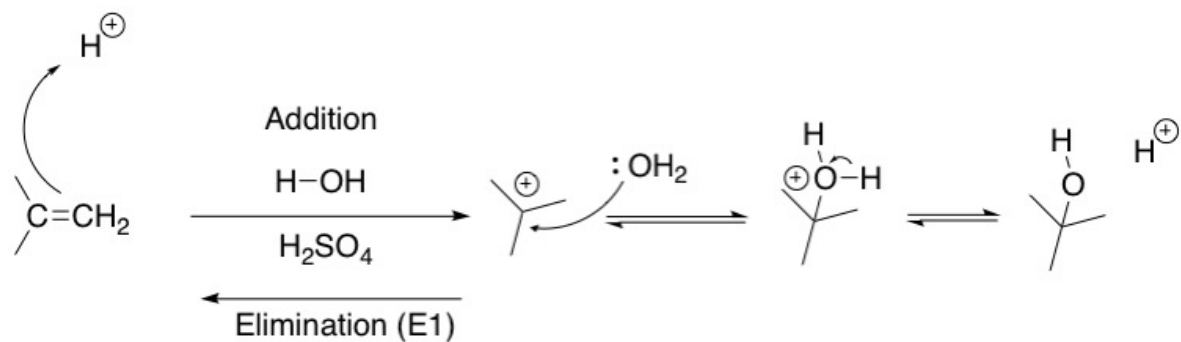


Not Stereospecific

Examples

Hydration (Water Addition)

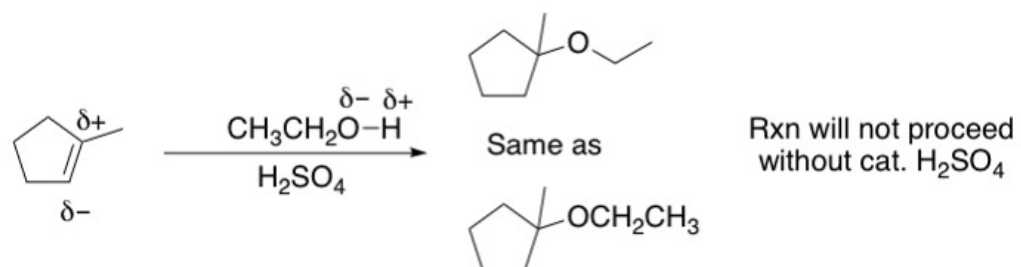
Ex #1)



H_2SO_4 (H^+) is a catalyst, meaning that it is not transformed or used up in the reaction but is present to lower the activation energy.

Ether formation

Ex #1)



Ex #2)

