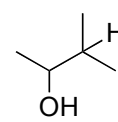
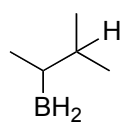
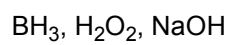
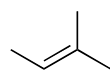
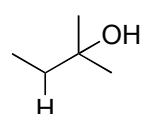
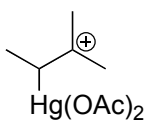
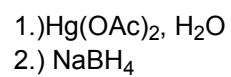
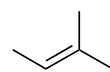
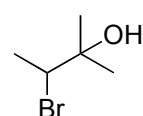
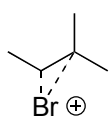
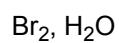
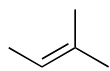
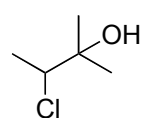
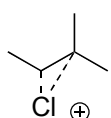
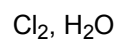
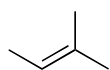
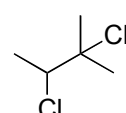
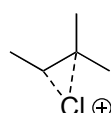
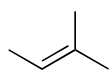
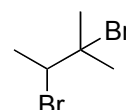
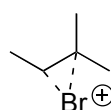
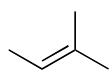
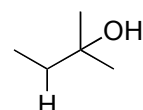
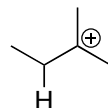
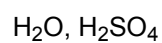
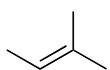
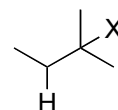
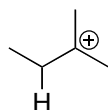
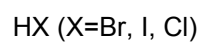
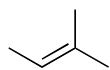


30 A reactions of alkenes

Reagents

Intermediates

Products



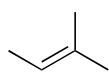
Anti-Markovnikov

30 A reactions of alkenes

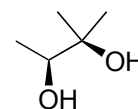
Reagents

Intermediates

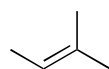
Products



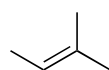
$\text{OsO}_4, \text{ROOH}$



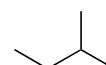
Same Face!!



$\text{O}_3, (\text{CH}_3)_2\text{S}$



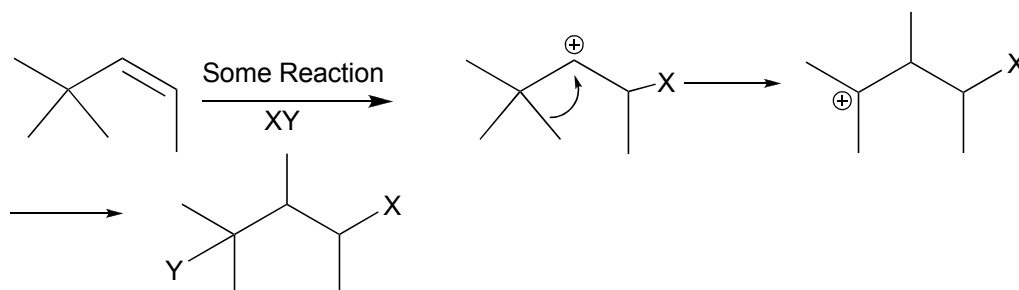
H_2/Pt



H_2/Pt

No Reaction

Becareful for 1,2 shifts (hydride, methyl, alkyl, etc.)



Remember for cations $3^\circ > 2^\circ > 1^\circ$

Remember most of these reactions work on alkynes as well