

Figure 9.03

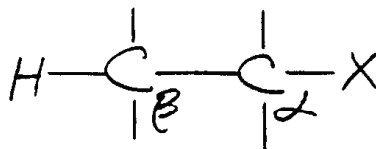


Figure 9.04

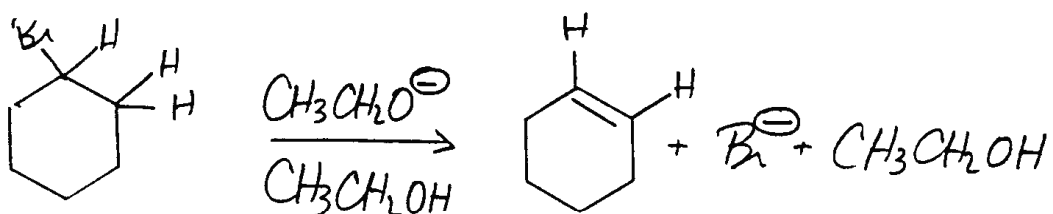


Figure 9.05

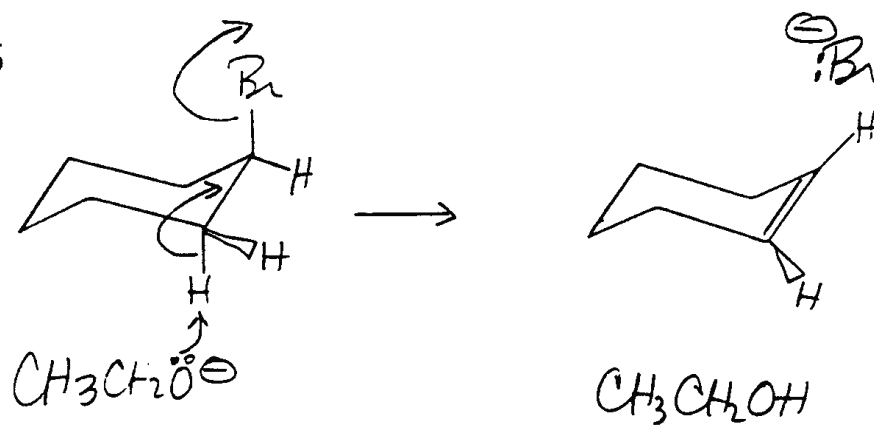


Figure 9.06

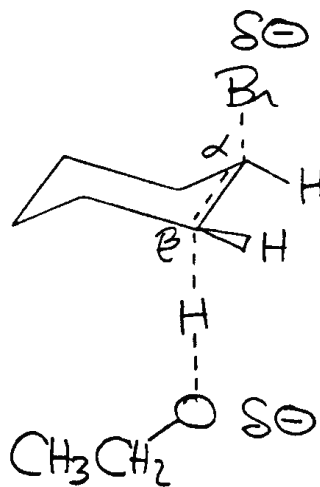


Figure 9.07

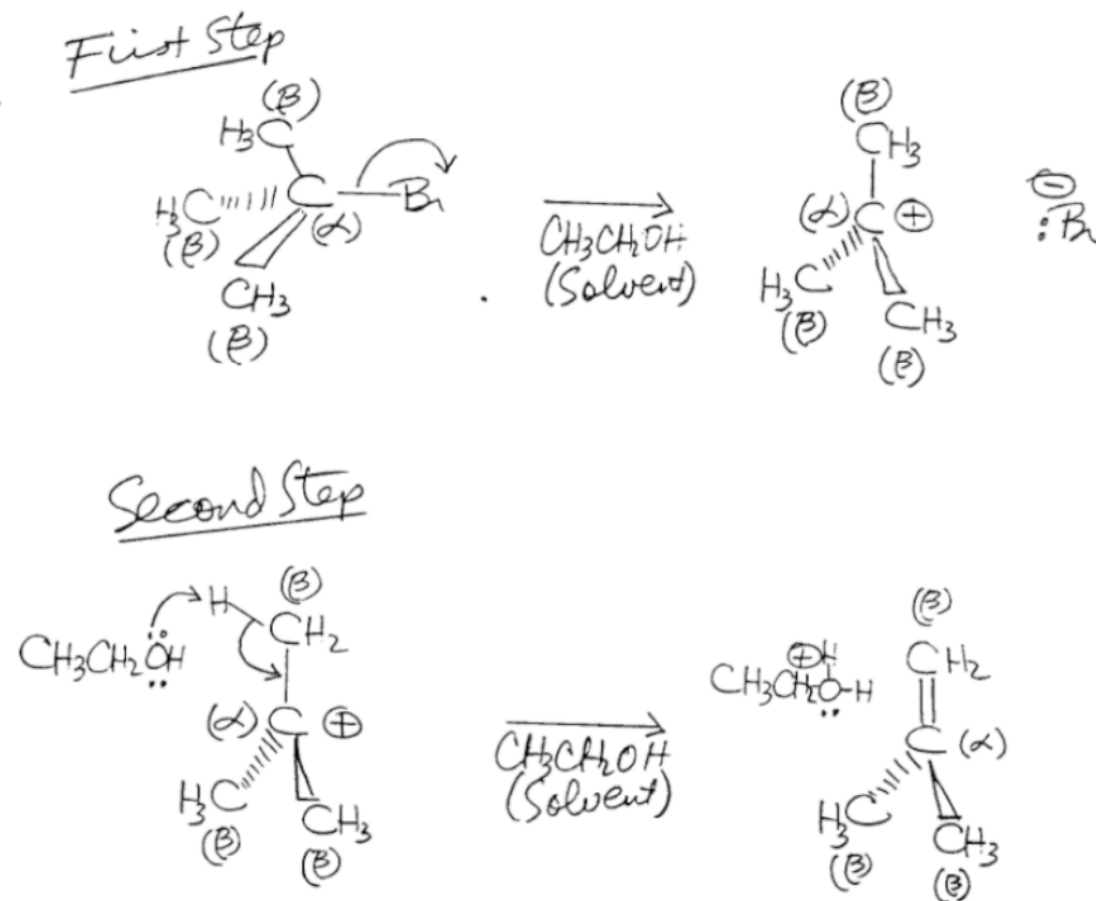


Figure 9.09

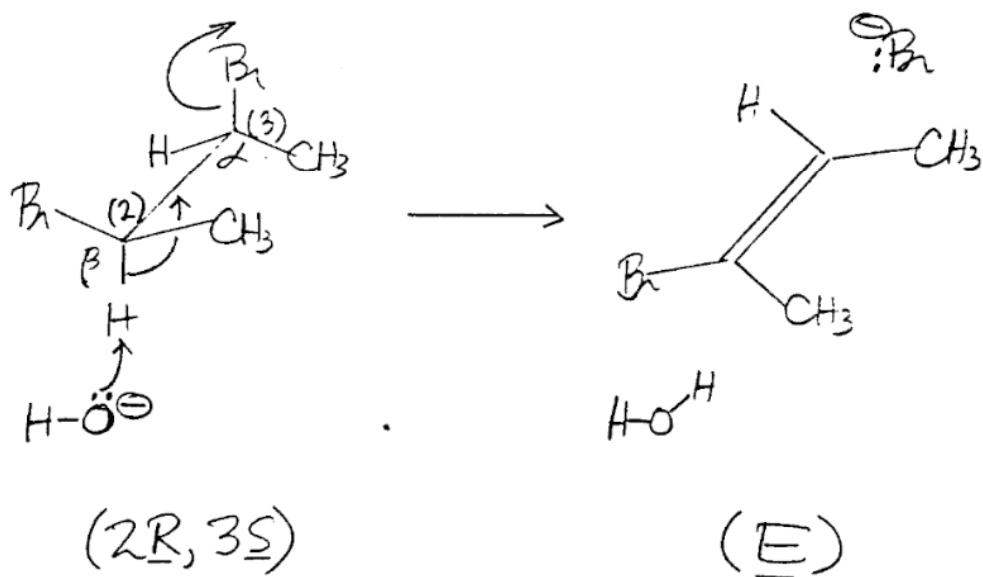


Figure 9.11

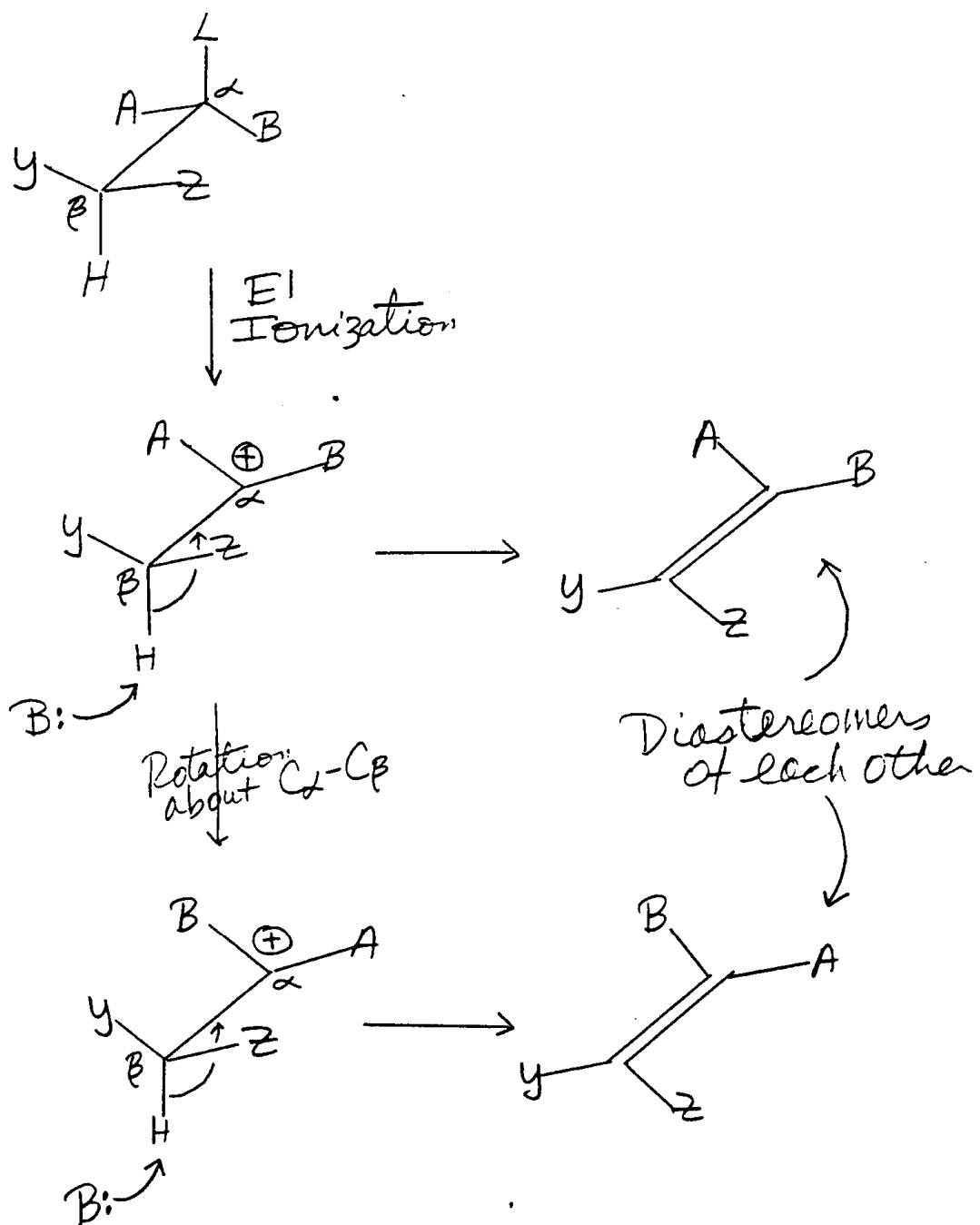


Figure 9.12

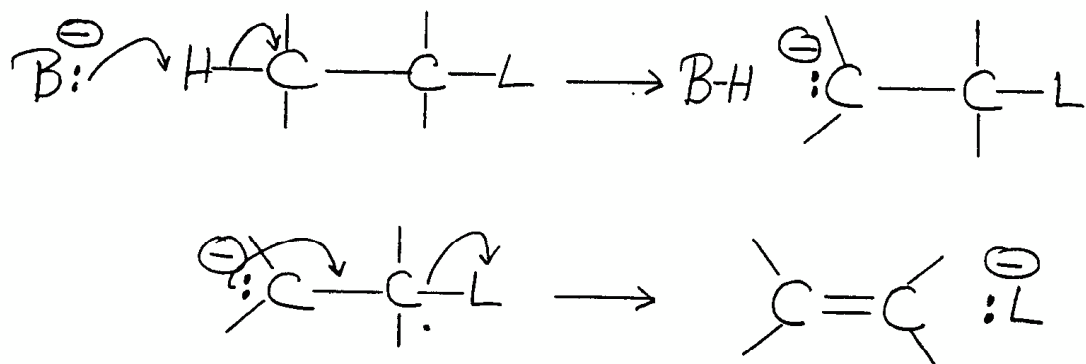


Figure 9.13

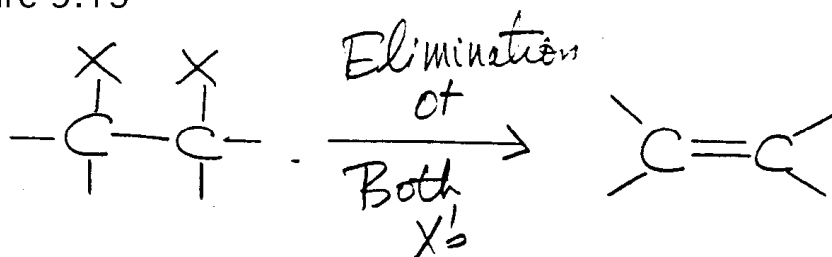


Figure 9.14

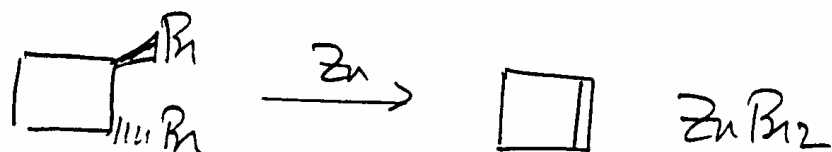
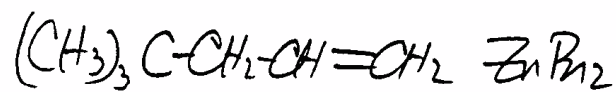
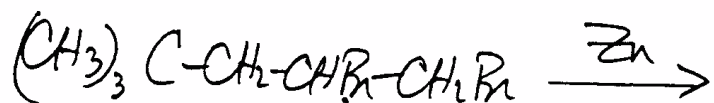


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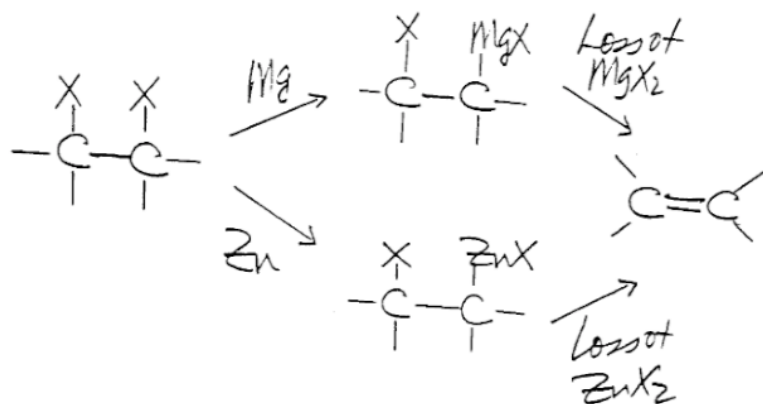


Figure 9.16

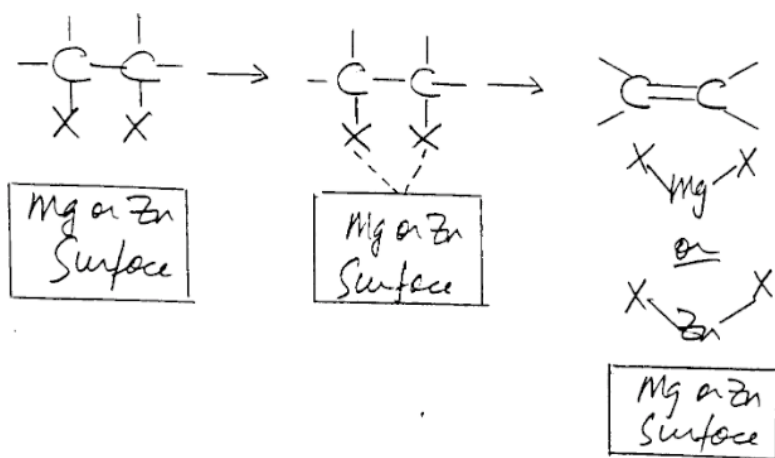
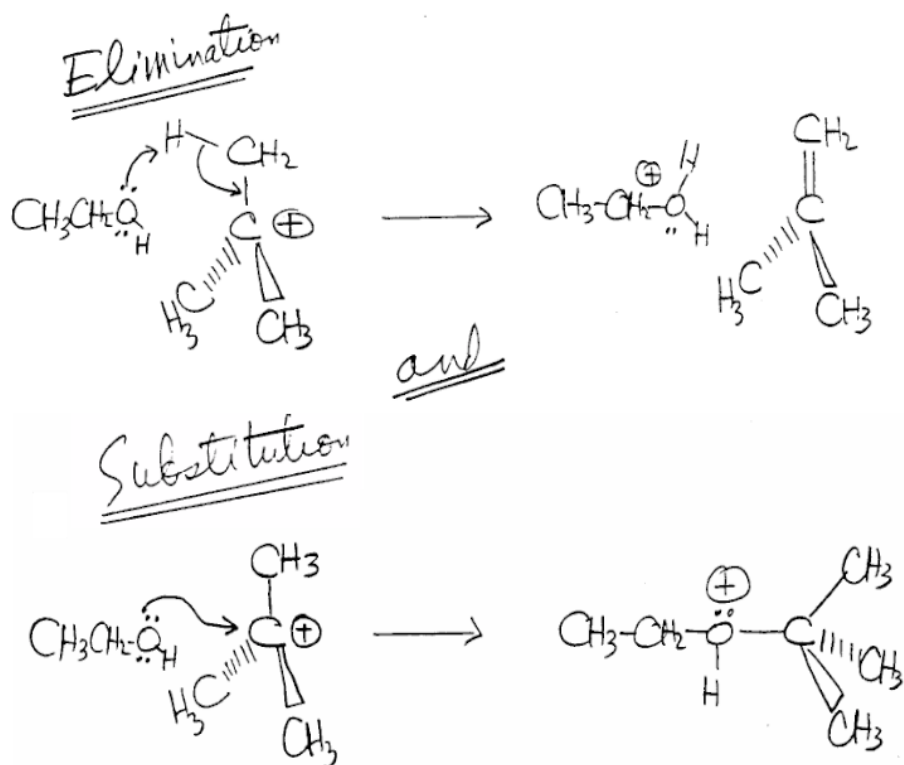


Figure 9.18



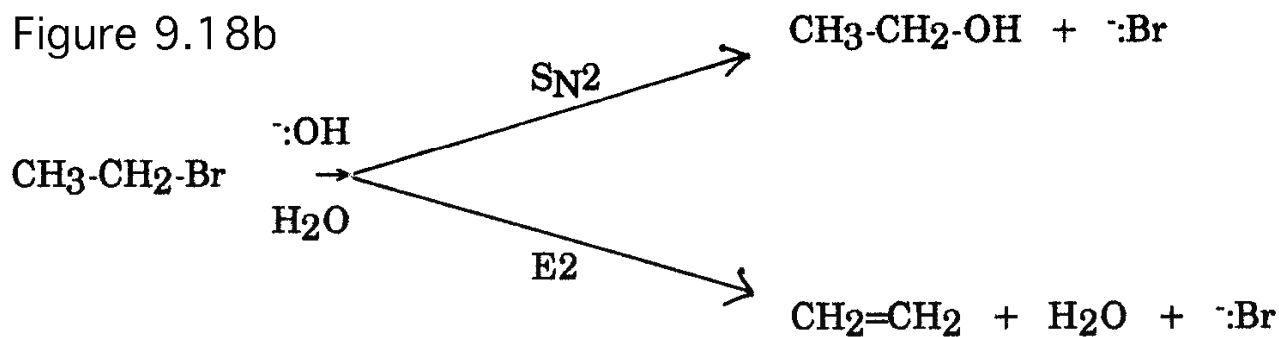
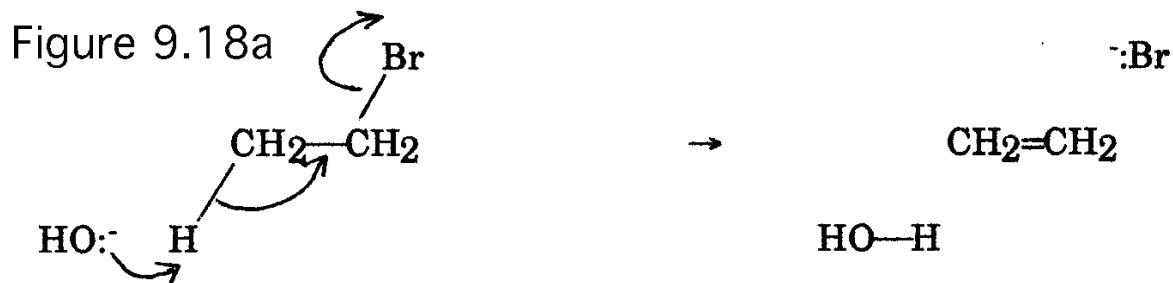


Figure 9.19

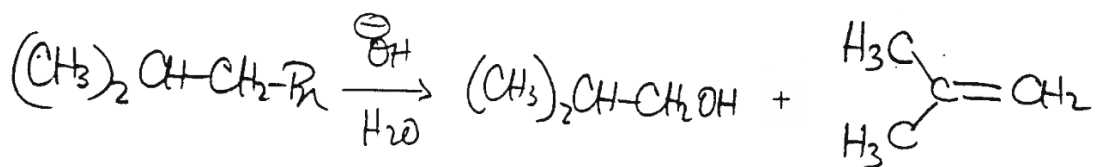
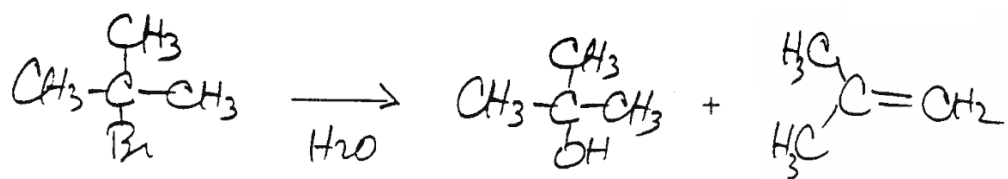
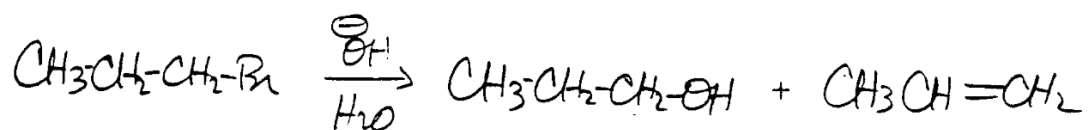


Figure 9.20

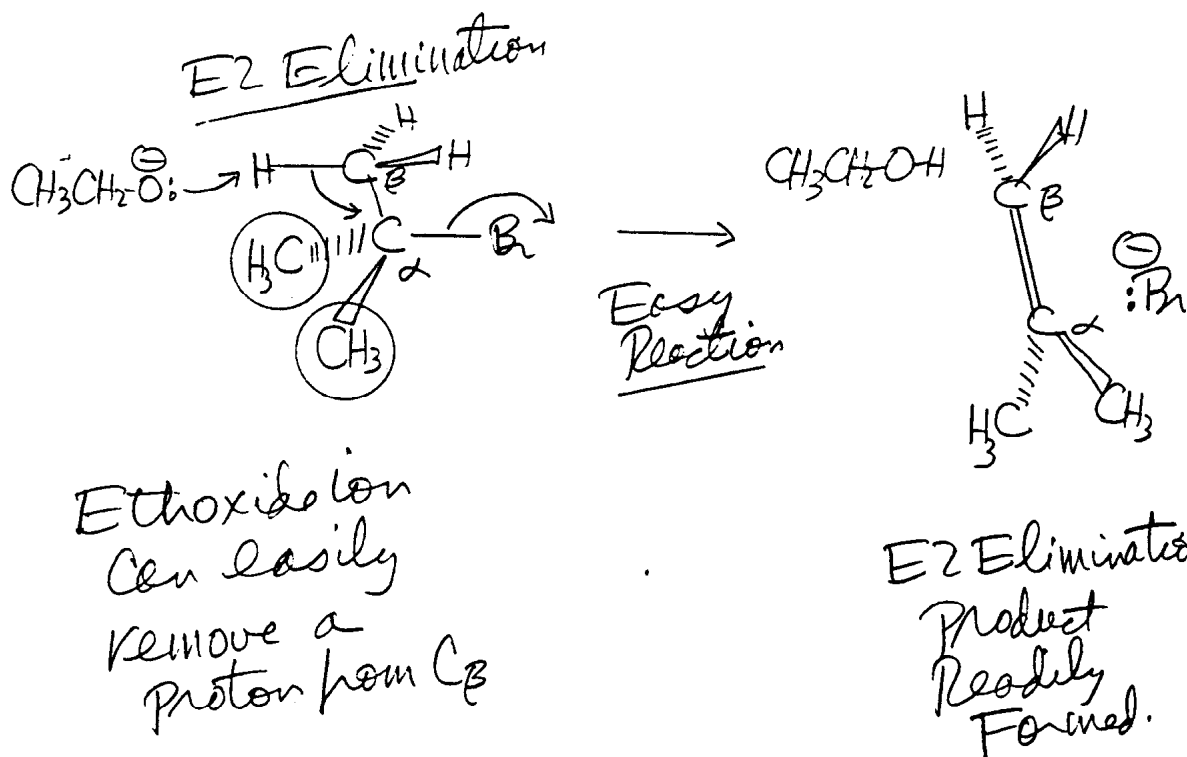
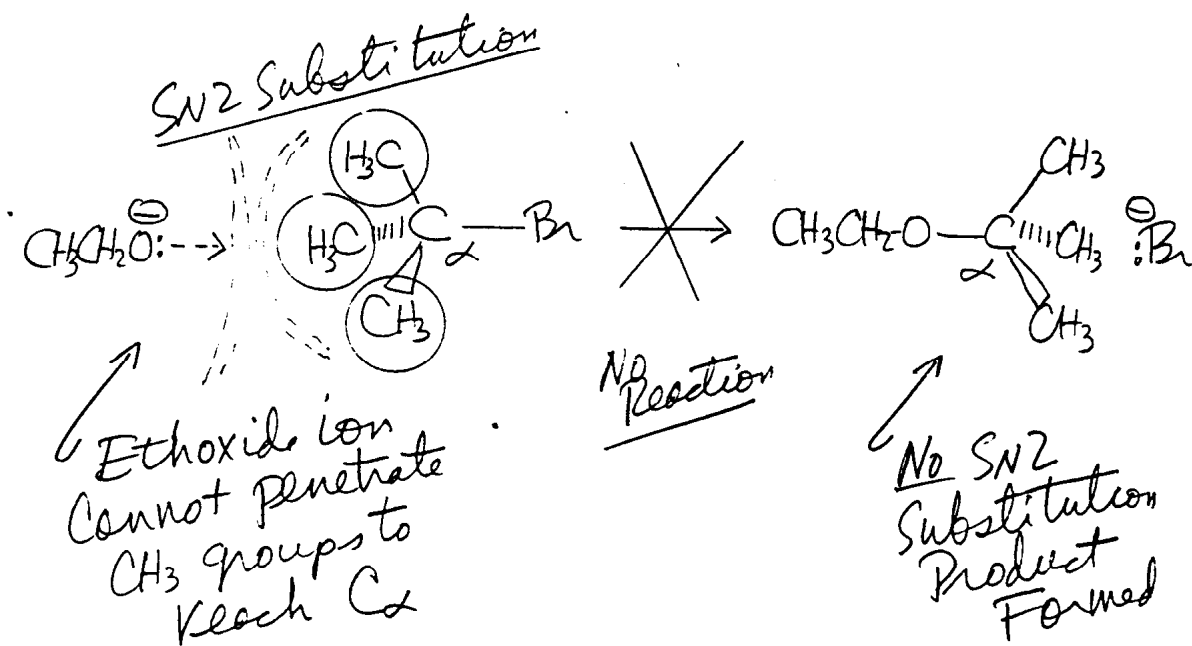


Figure 9.21

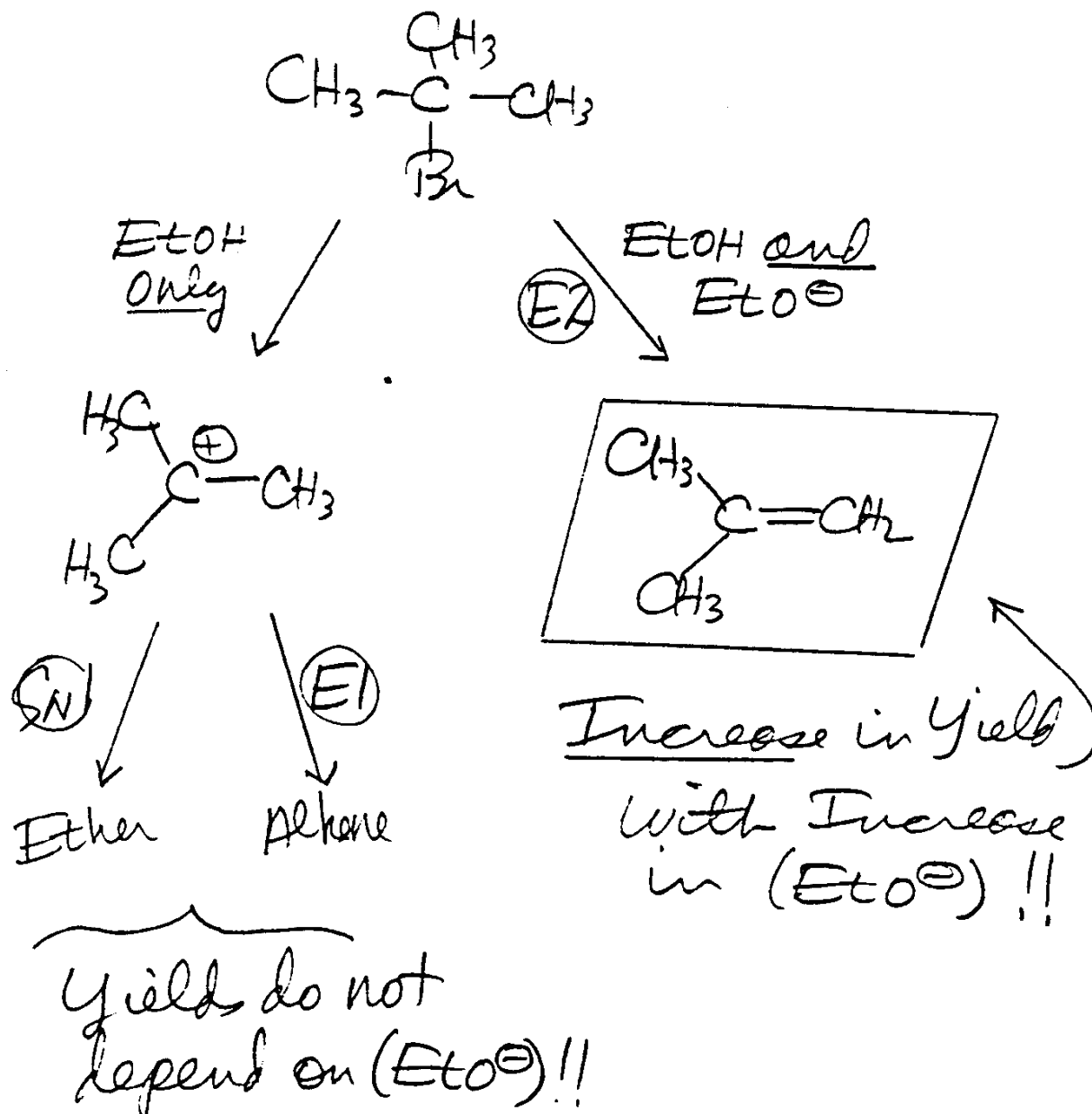


Figure 9.22

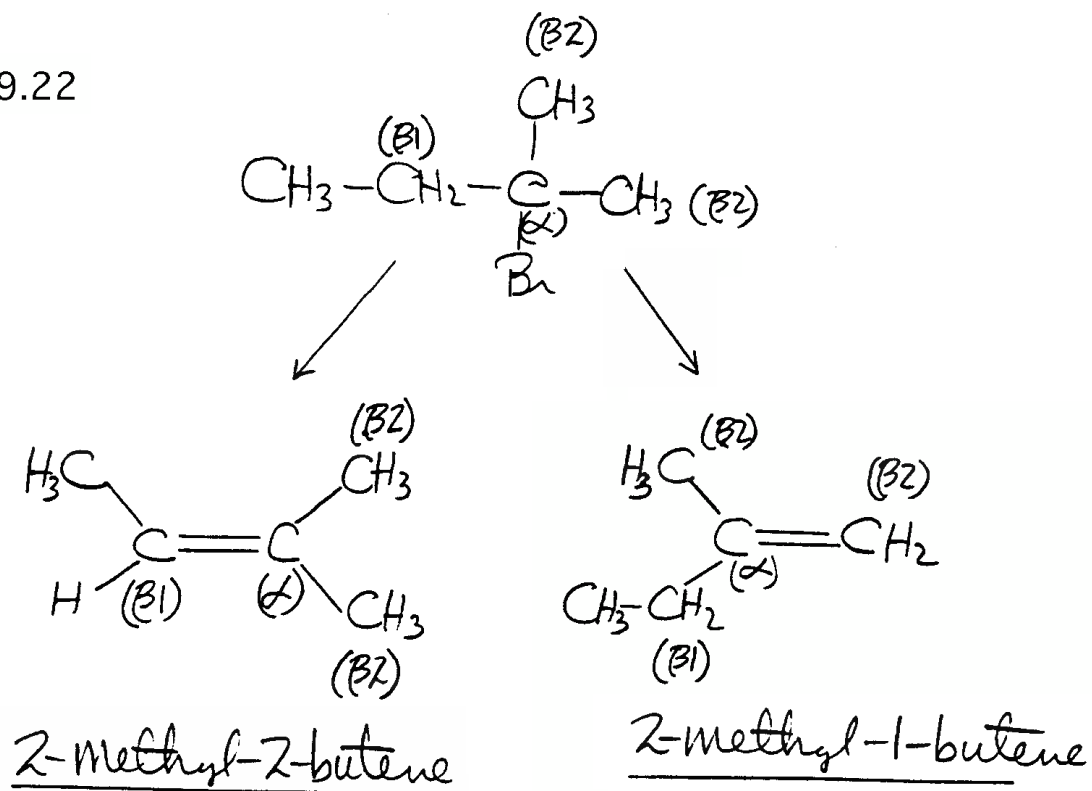


Figure 9.23

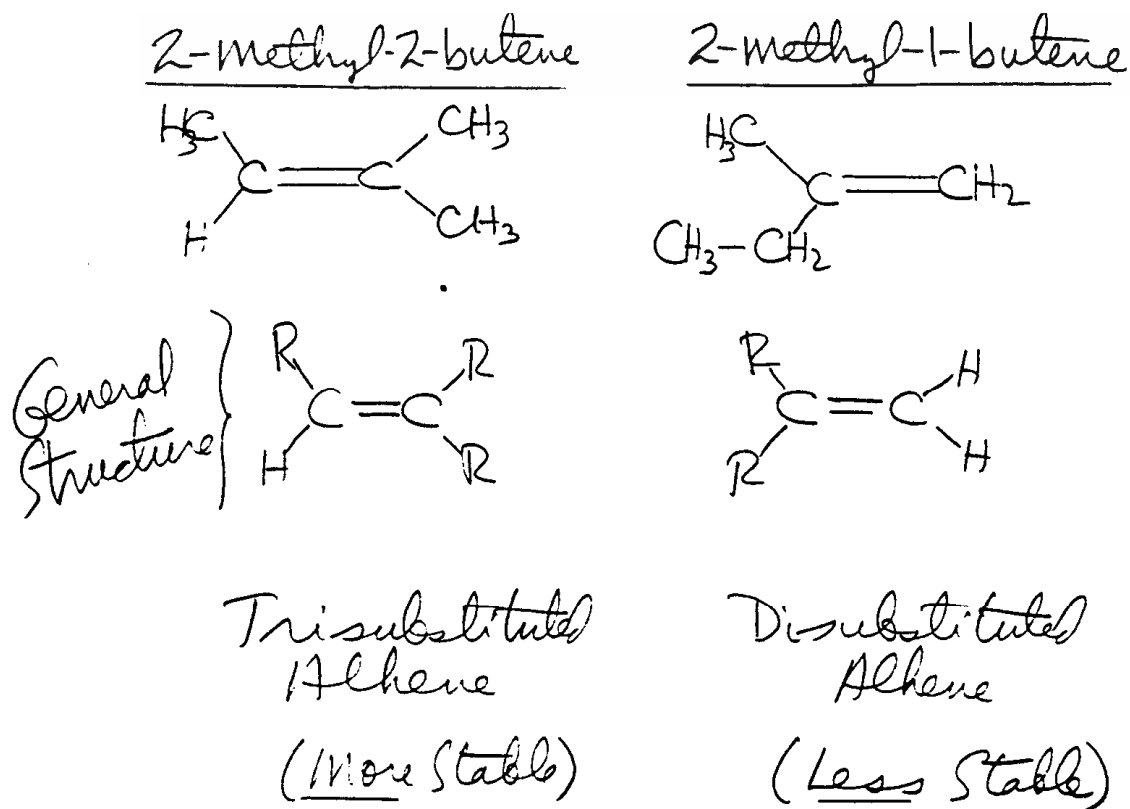


Figure 9.24

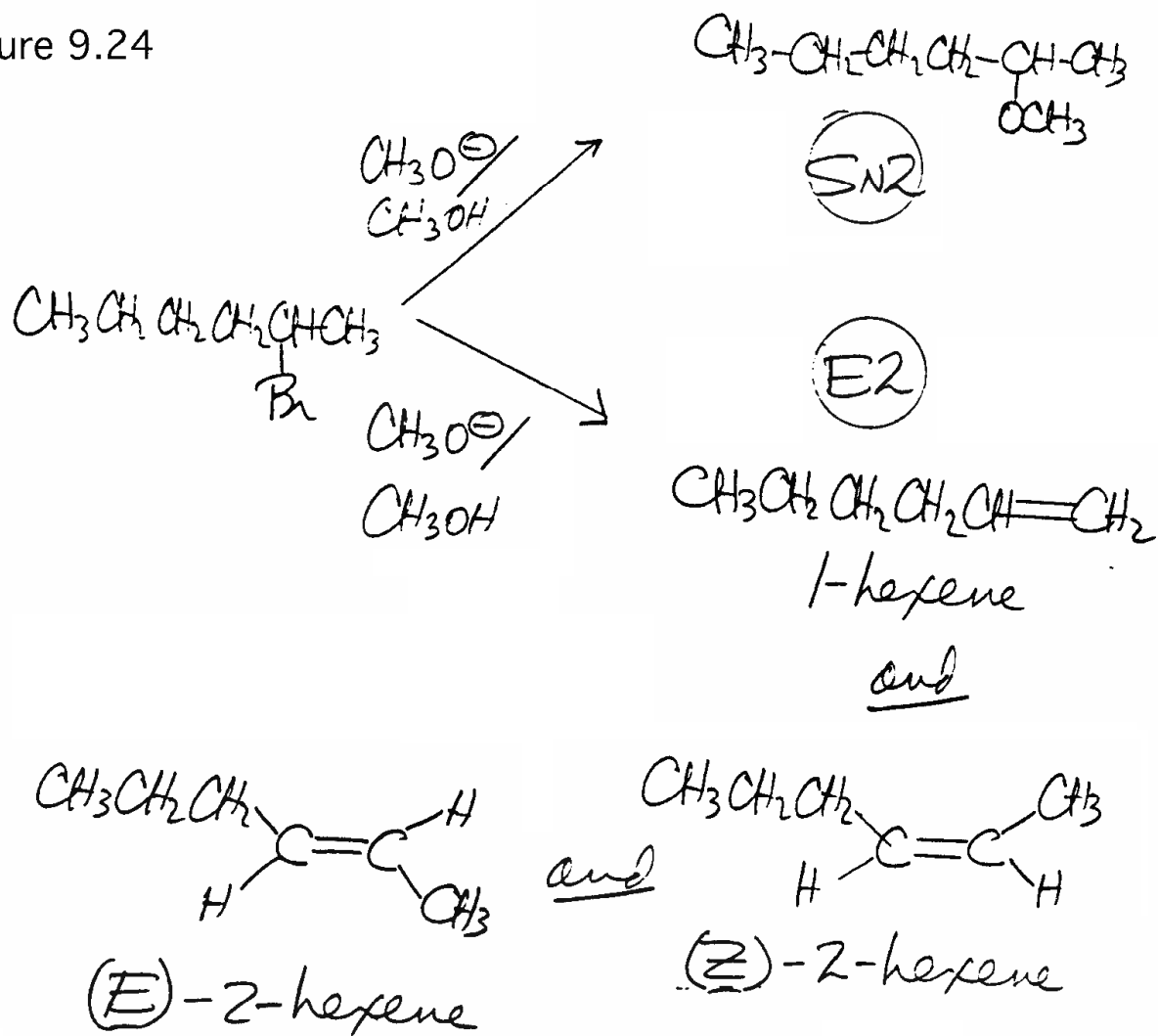


Figure 9.25

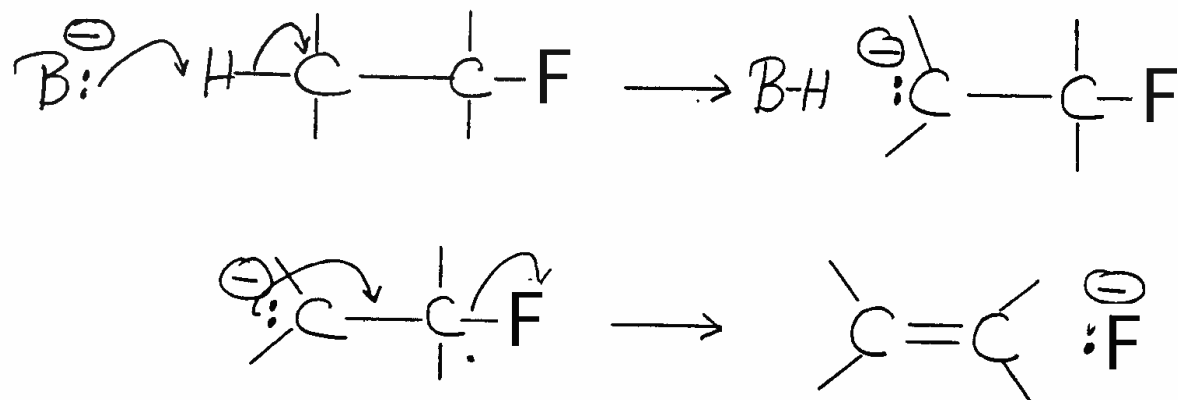


Figure 9.26

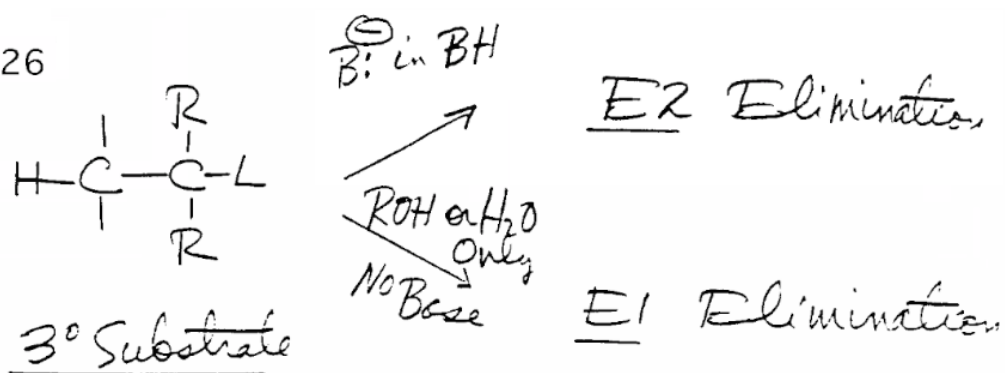


Figure 9.27

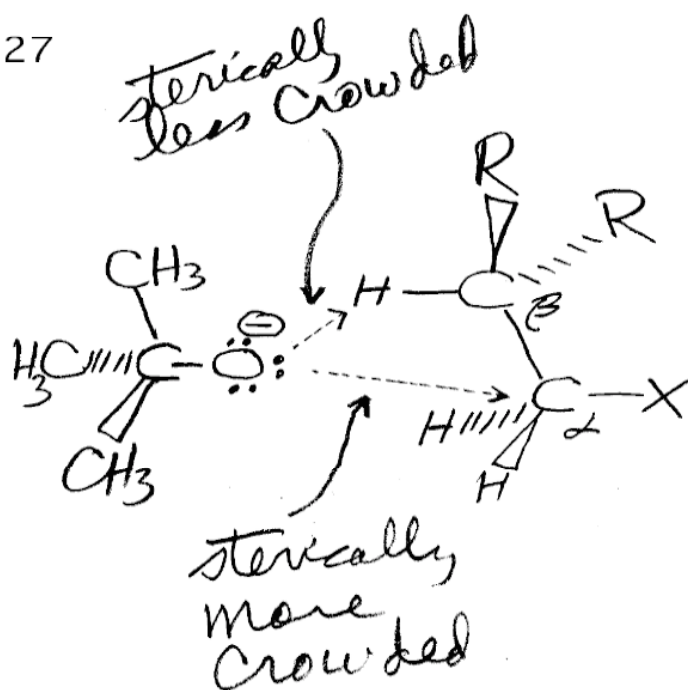


Figure 9.28

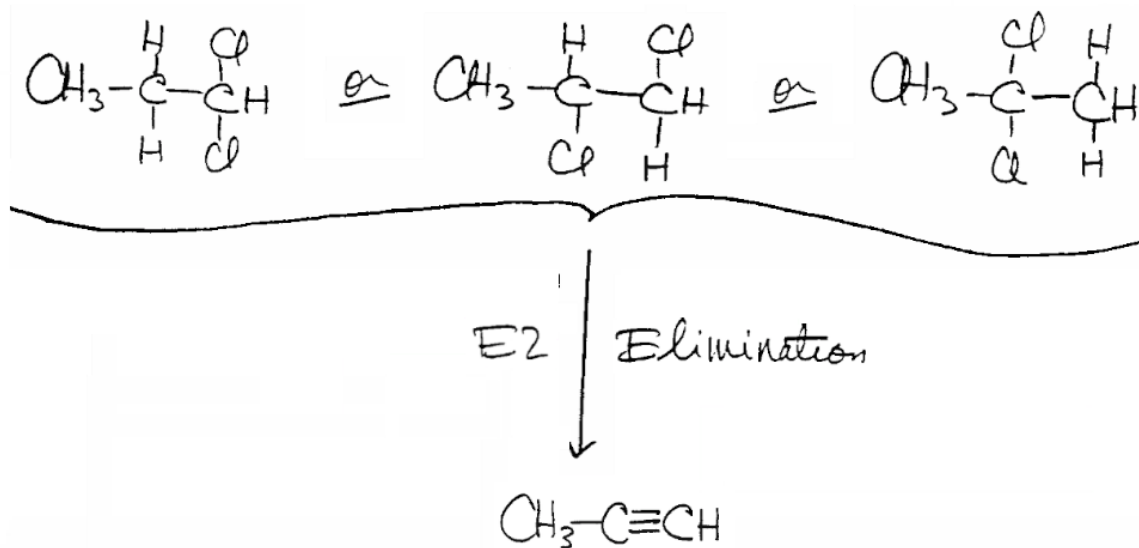


Figure 9.29

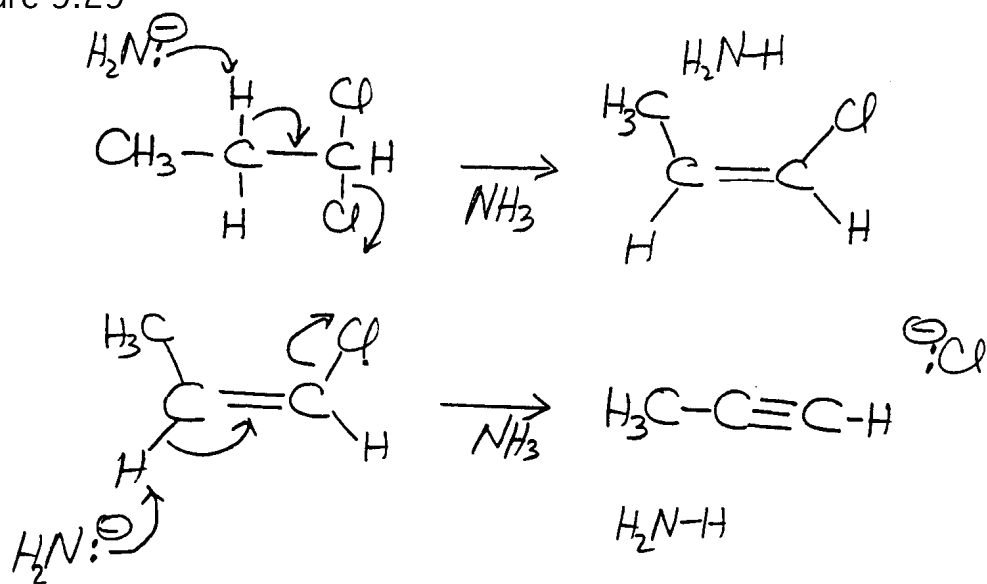


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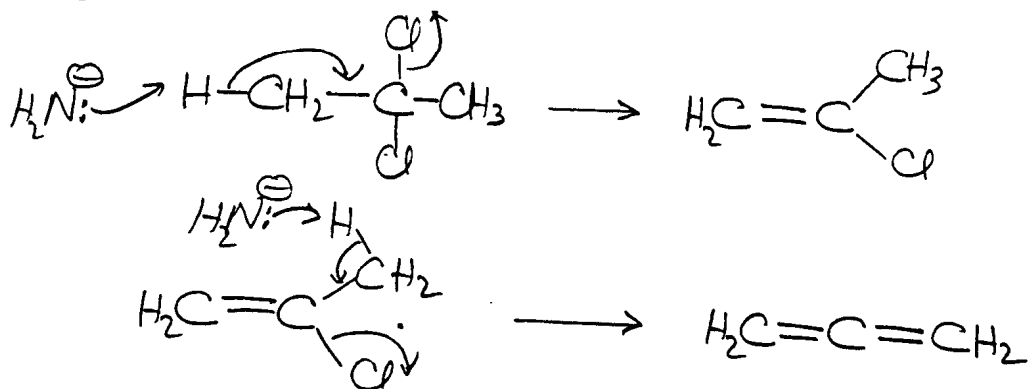


Figure 9.31

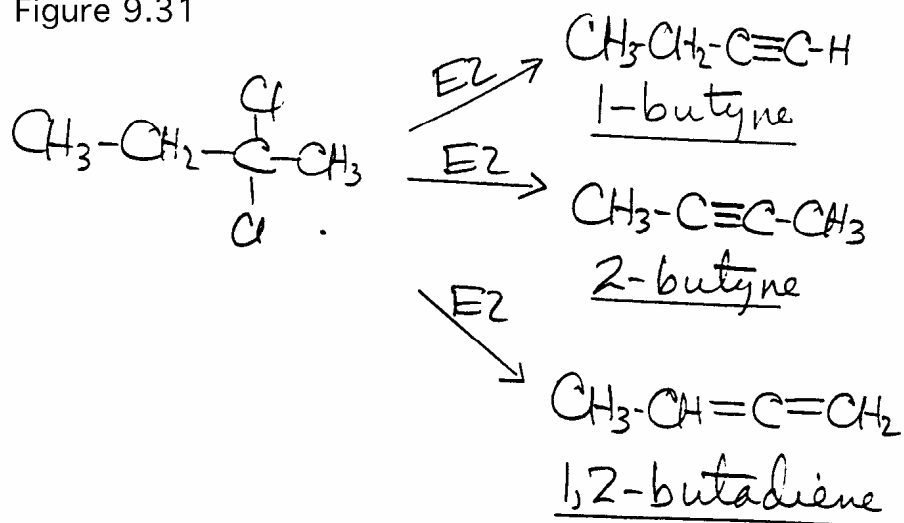
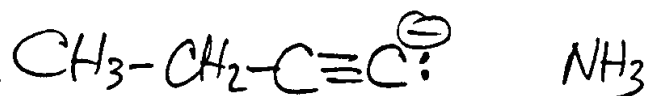
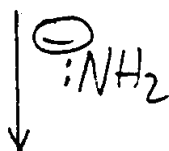
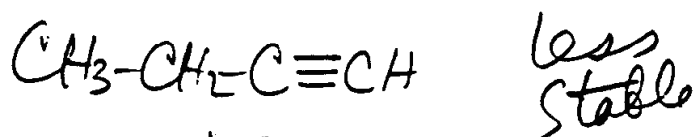
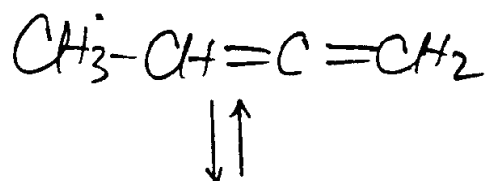
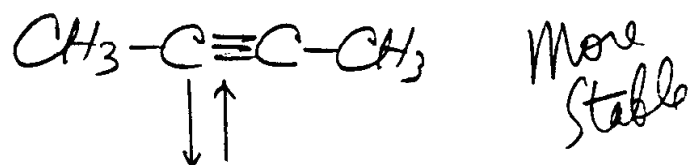


Figure 9.32

Alkyne/Allene Equilibria



→ Formation Shift
Equilibrium to
Terminal Alkyne

Figure 9.33

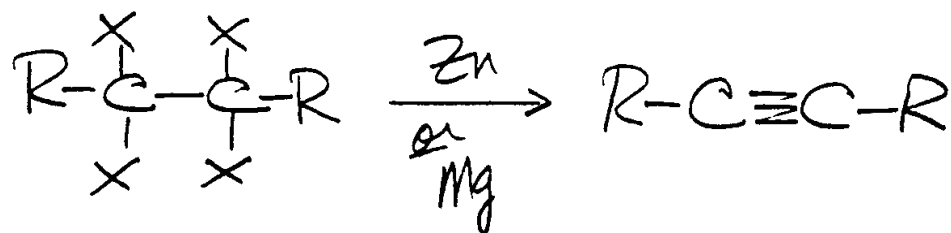


Figure 9.35

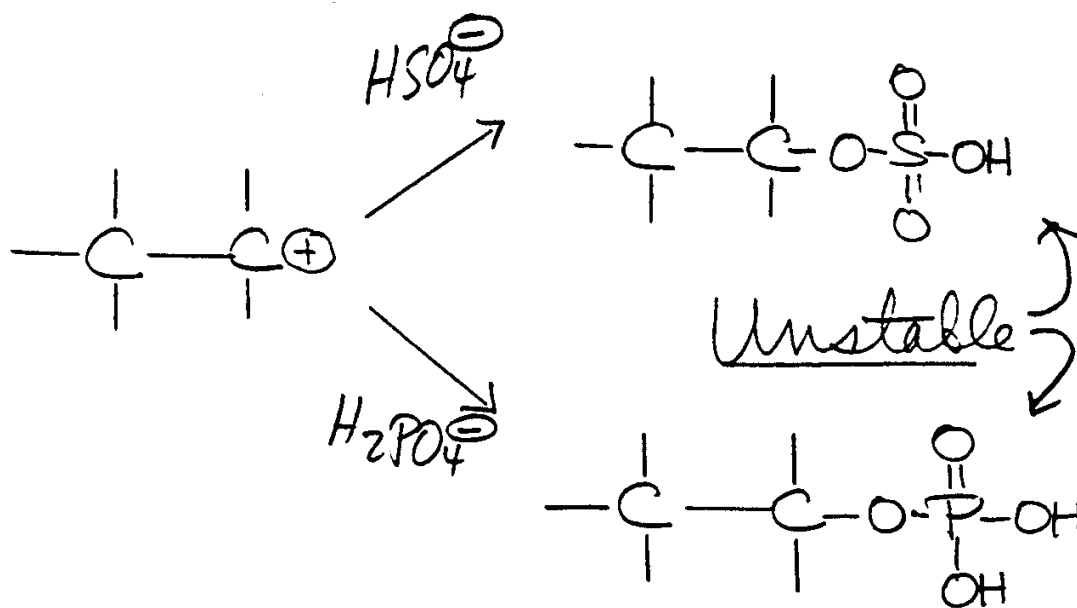


Figure 9.36

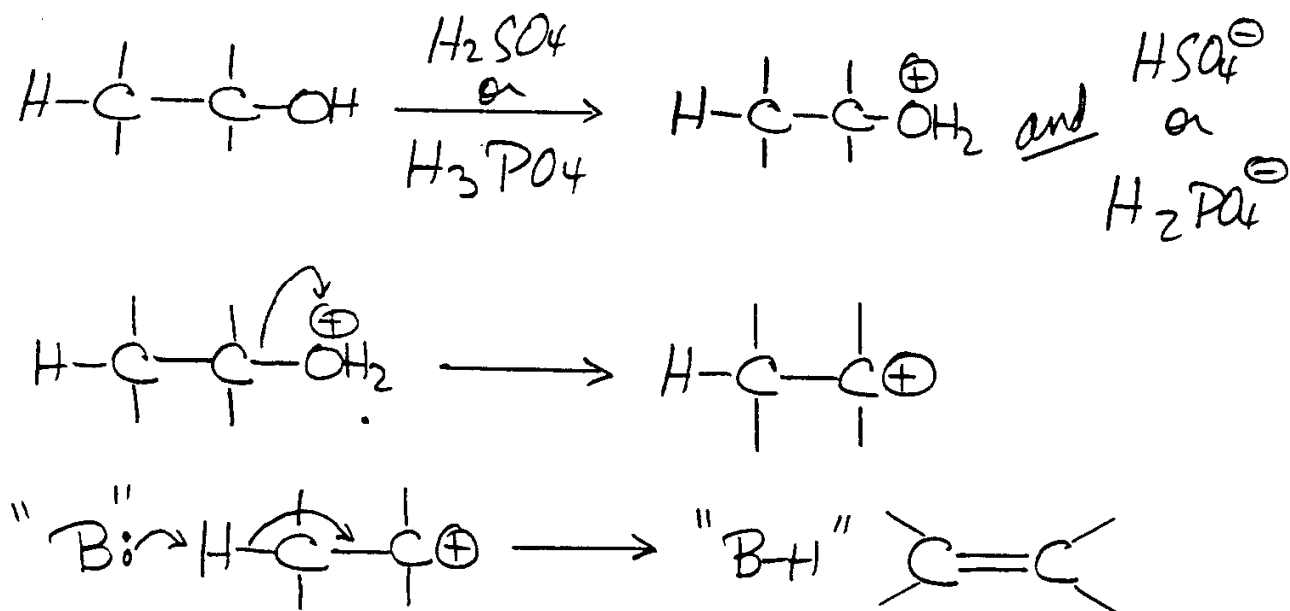


Figure 9.37

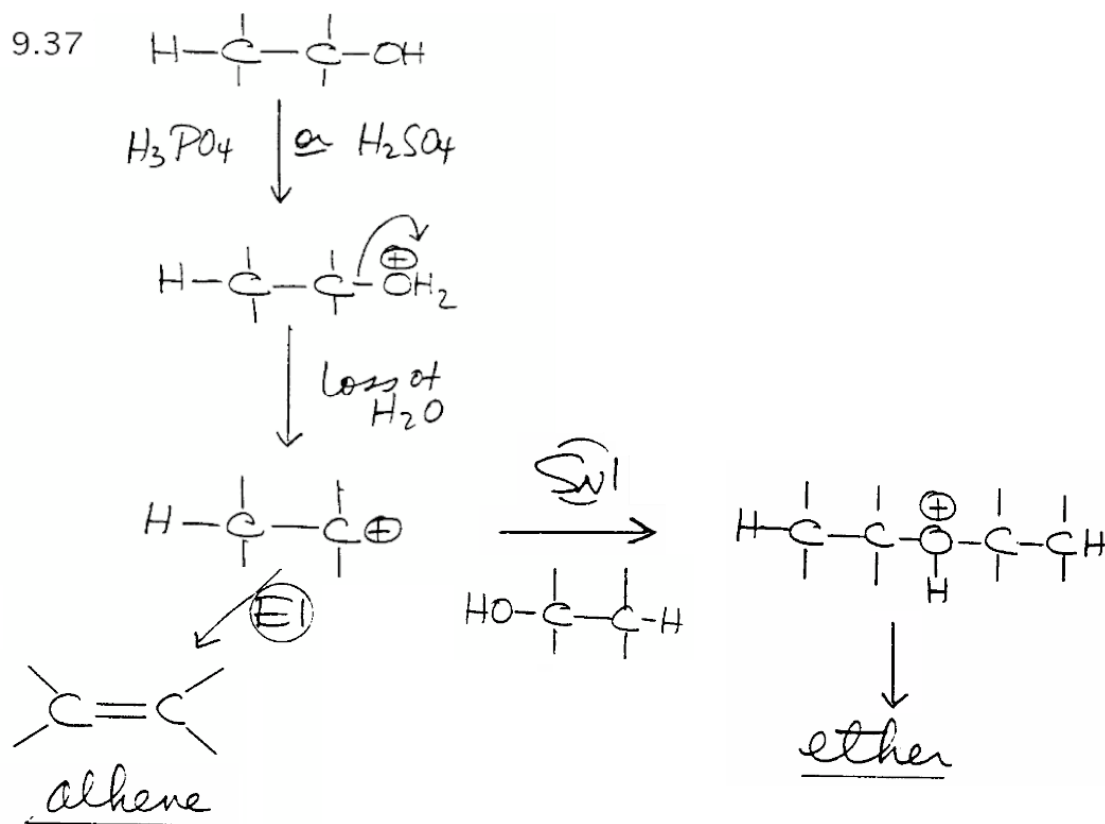


Figure 9.38

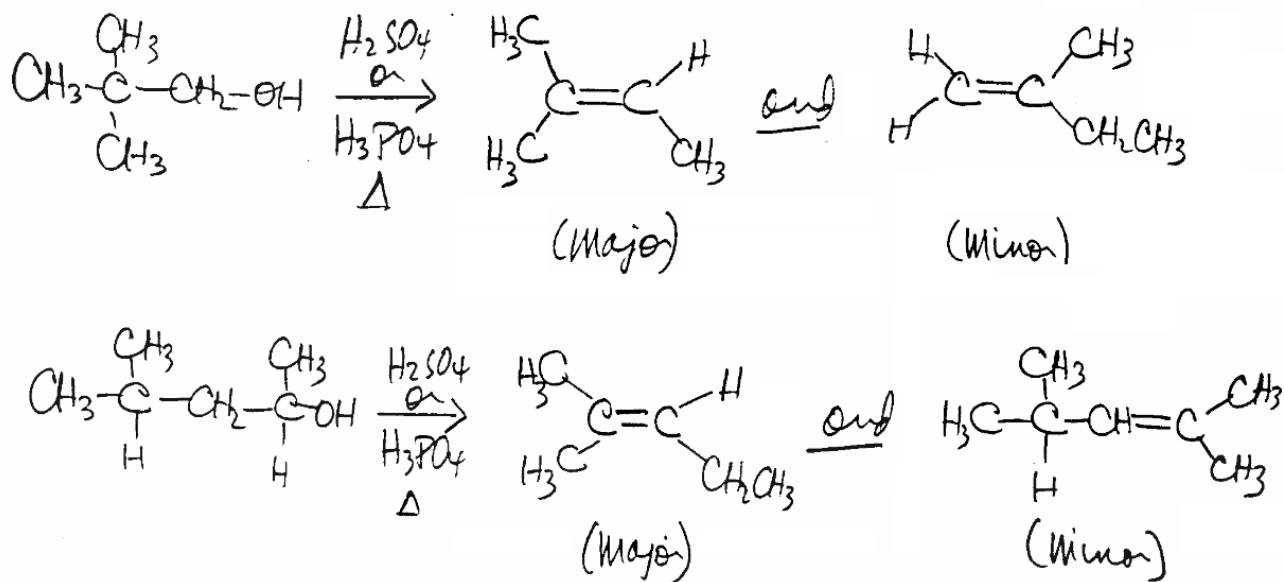
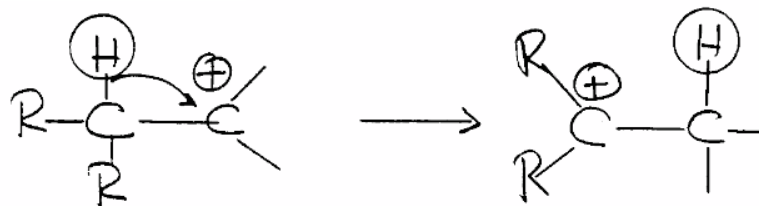
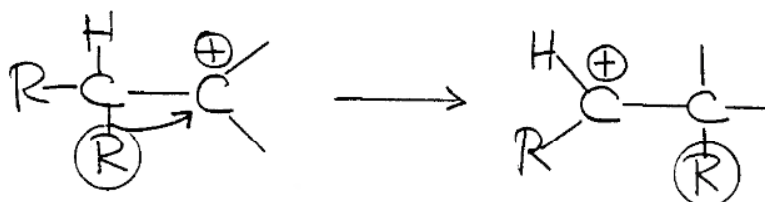


Figure 9.39

Hydride Shift



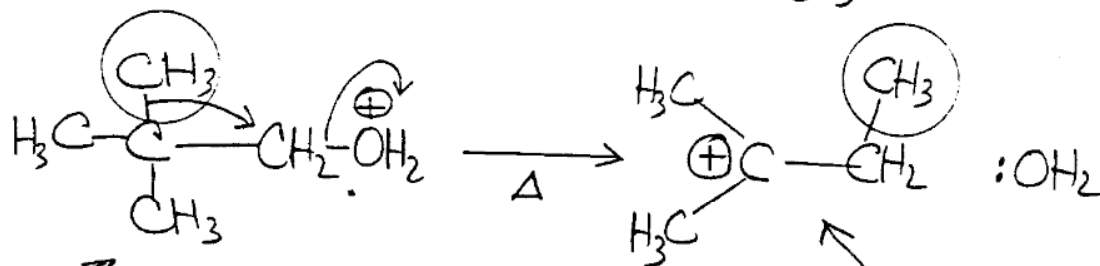
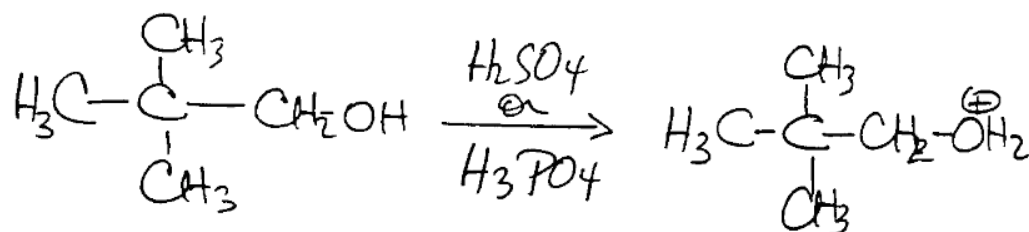
Alkyl Shift



Original Carbocations

Rearranged Carbocations

Figure 9.40



Will not lose water to form 1° Carbocation

Rearranged 3° Carbocation formed by CH₃ Shift during loss of H₂O

Figure 9.41

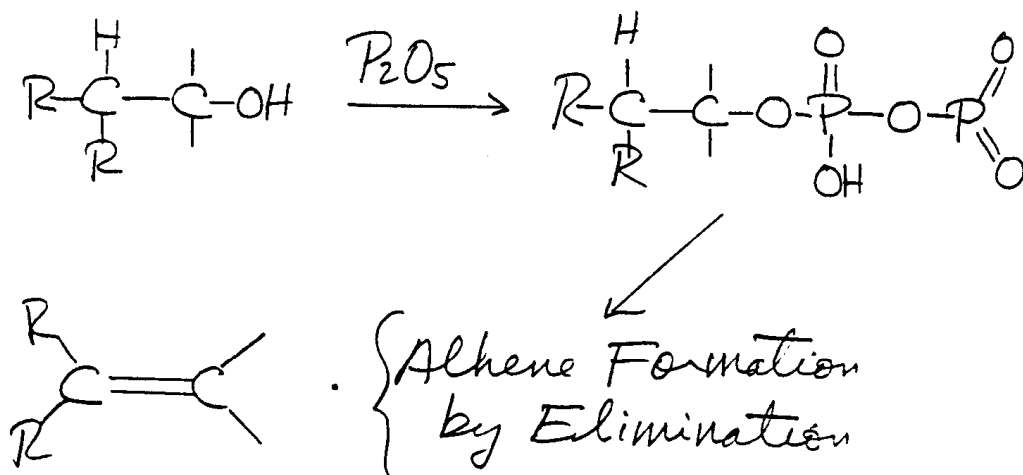


Figure 9.42

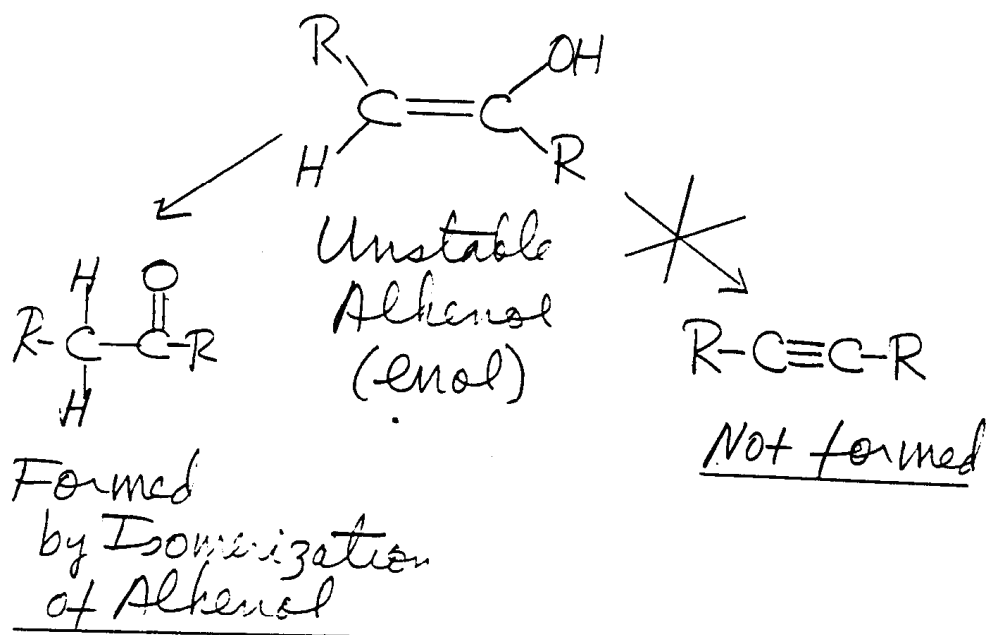


Figure 9.43

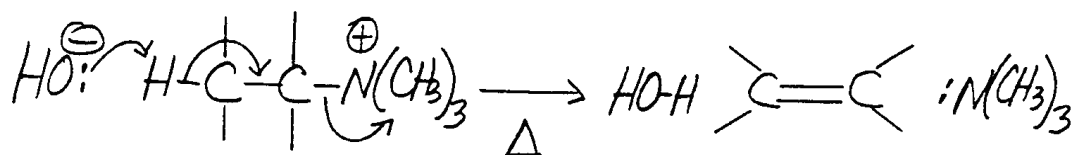


Figure 9.44

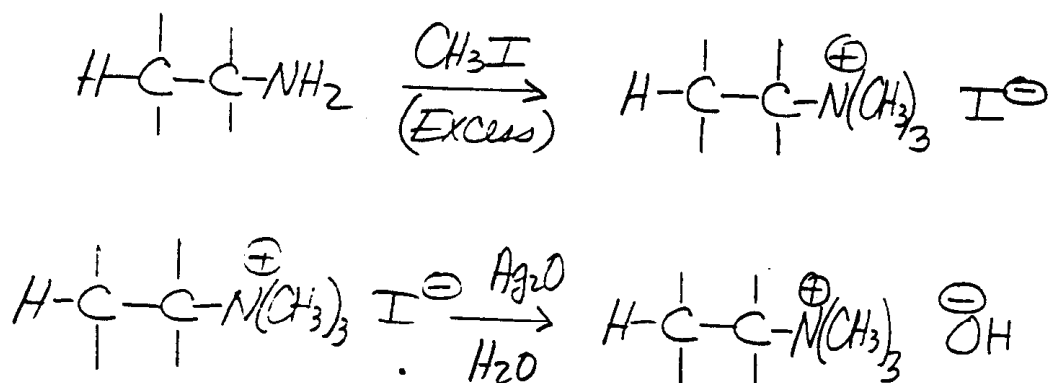


Figure 9.45a

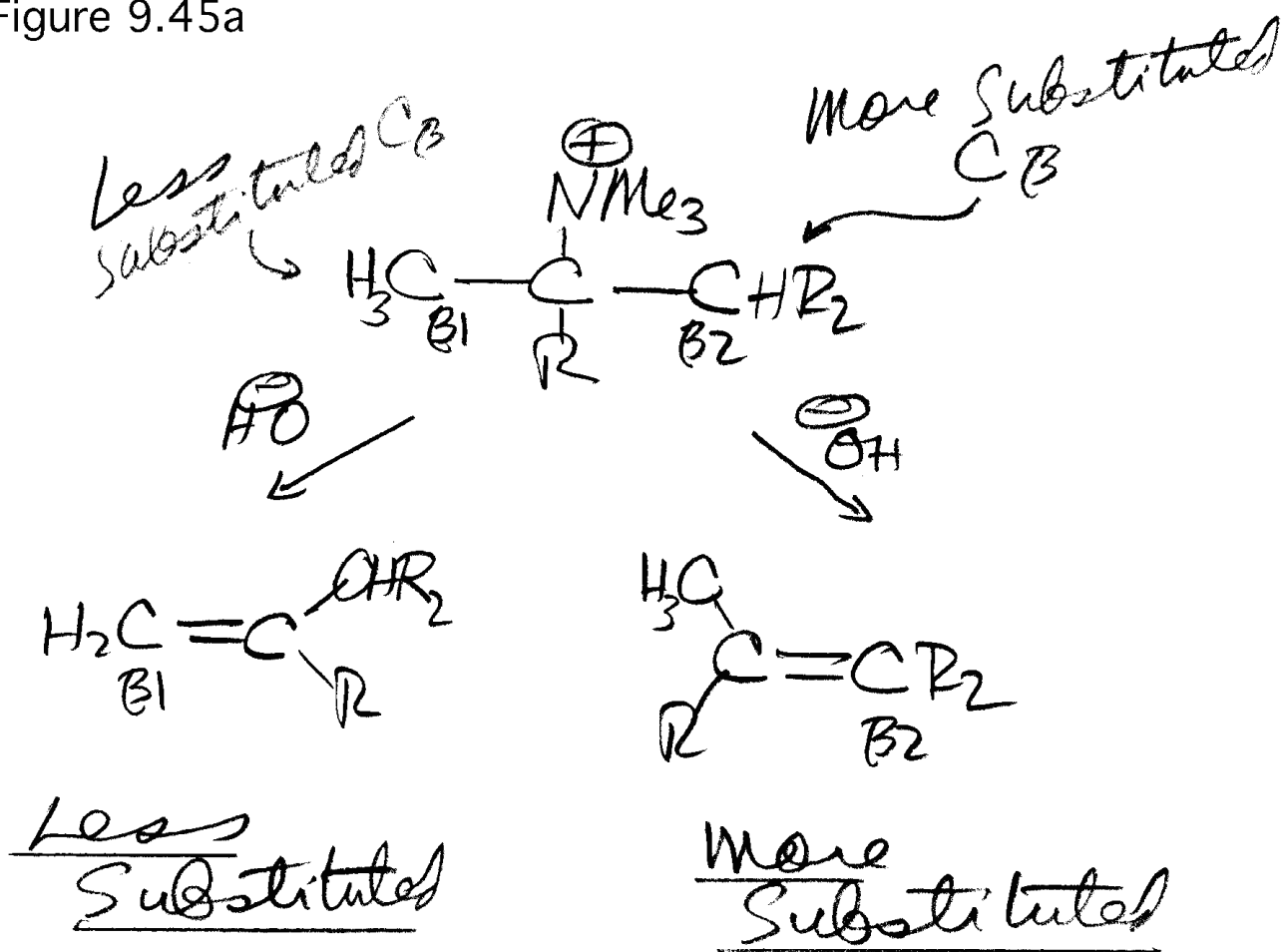
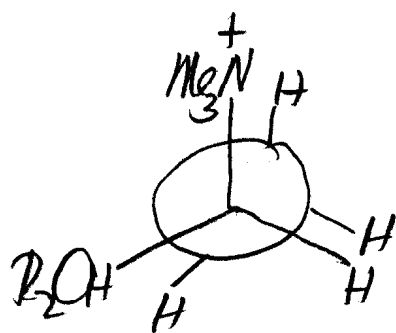
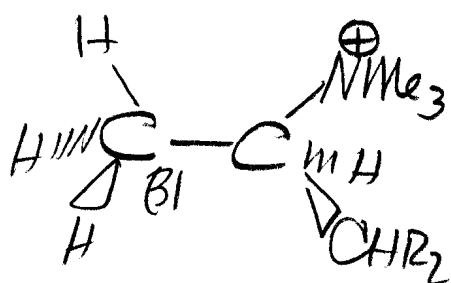
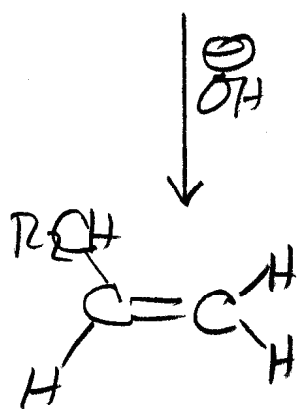


Figure 9.45b

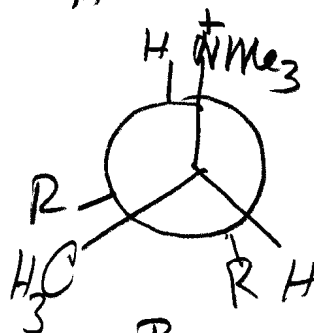
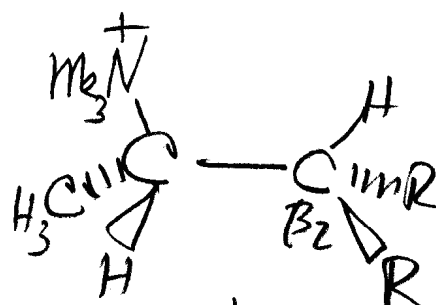
Syn-periplanar Conformations



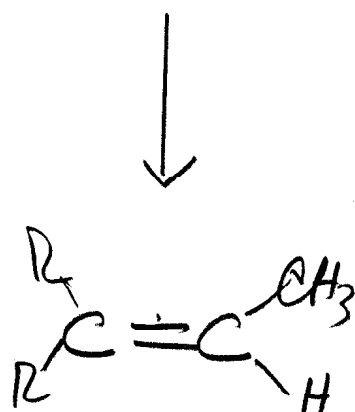
A
Better



Least
Subst.



B
Worse



Most
Subst.

Figure 9.45c

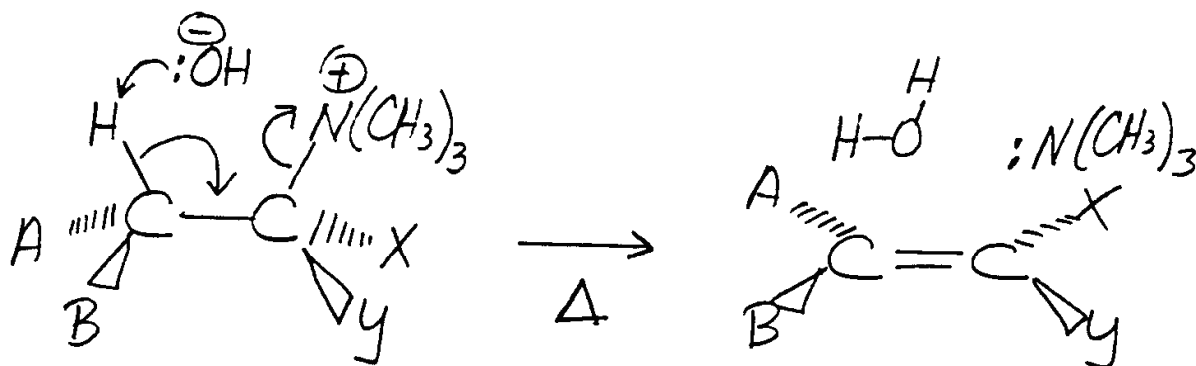
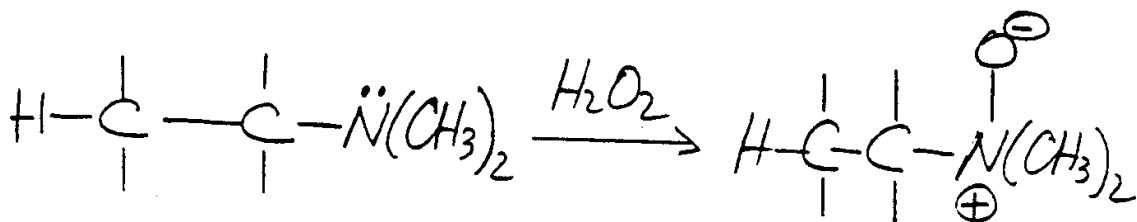
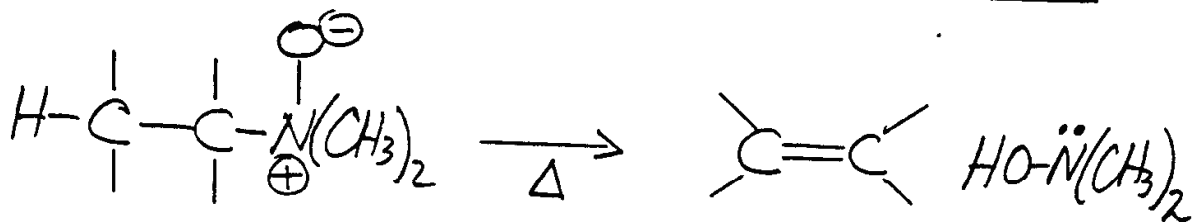


Figure 9.46



Amine Oxide



Alkene Hydroxylamine

Figure 9.47

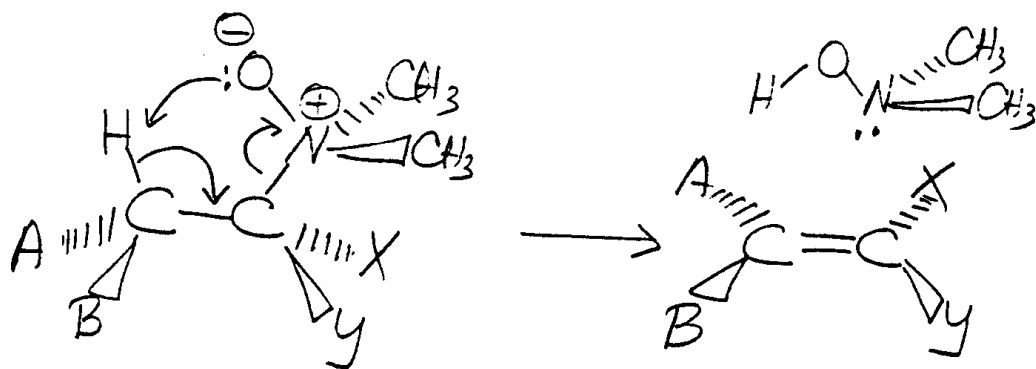


Figure 9.48

