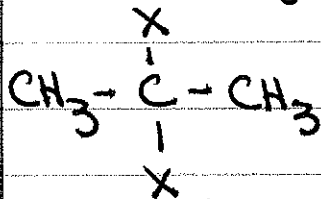
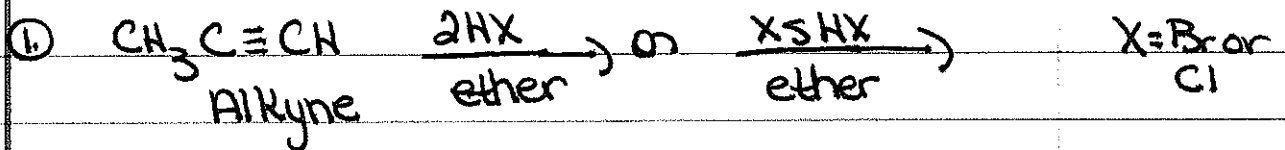


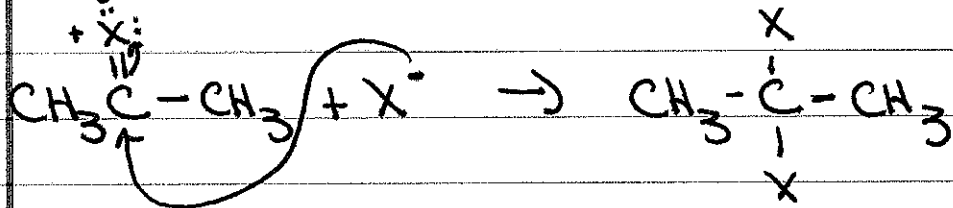
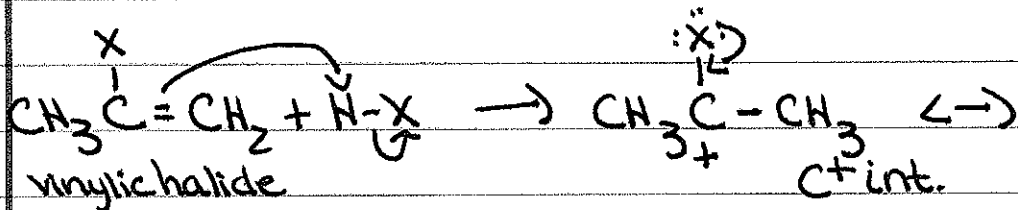
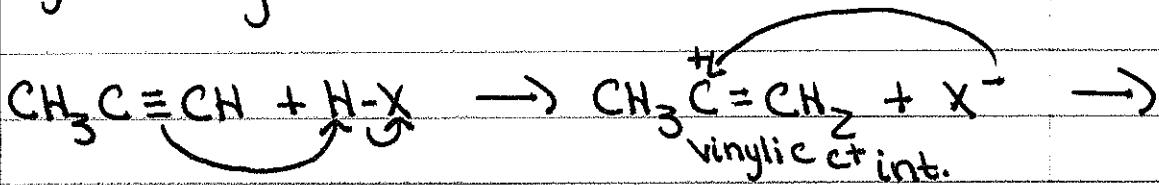
* Rxns of Alkynes

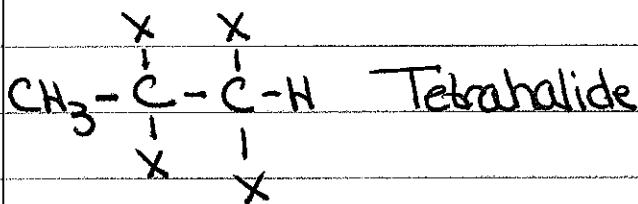
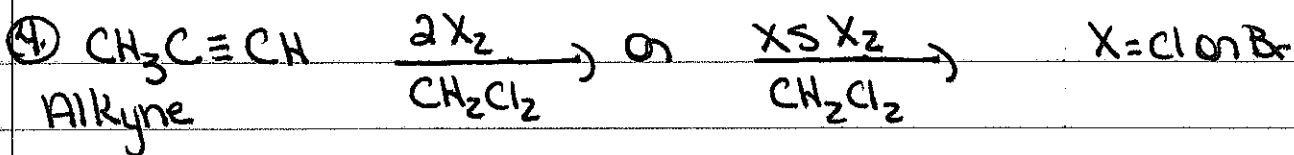
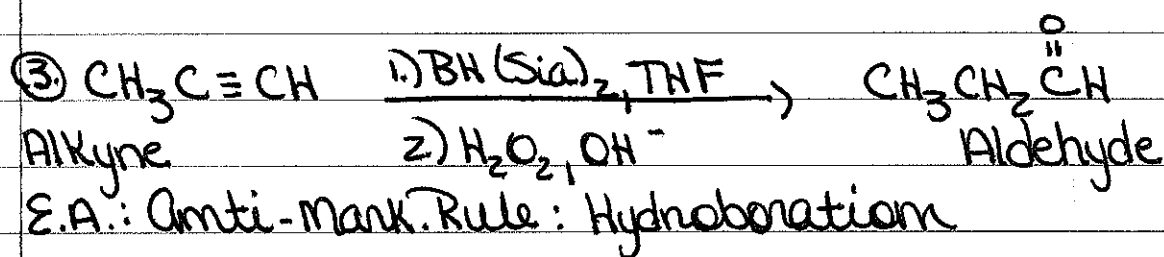
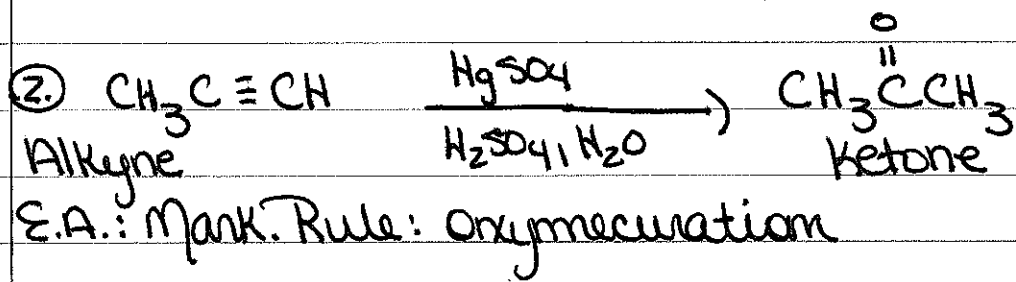


Vicinal Dihalide

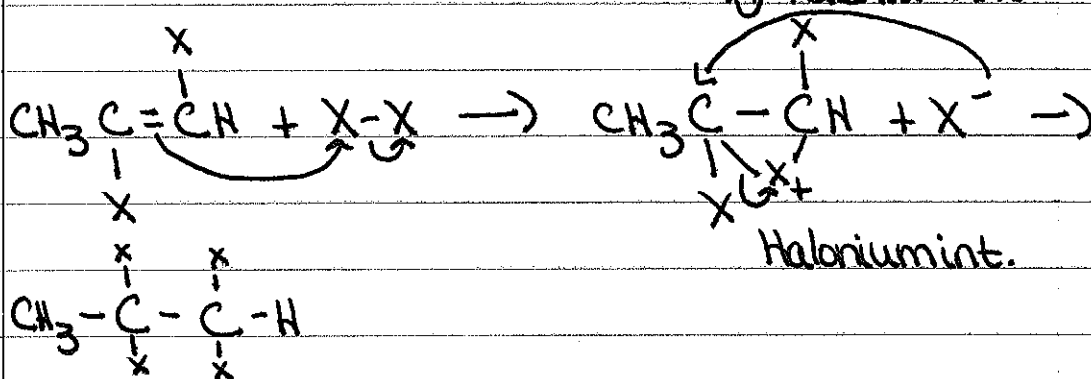
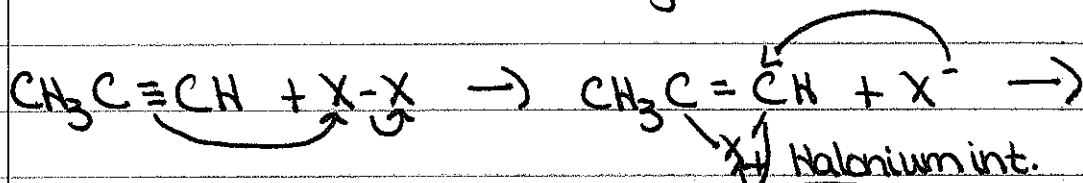
E.A.: Mark. Rule: vinylic C^+ int. + C^+ int.:

Hydrohalogenation

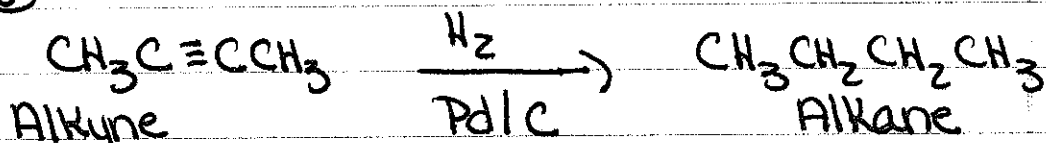




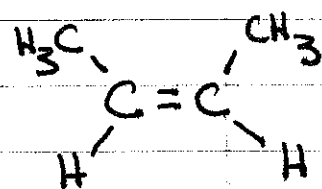
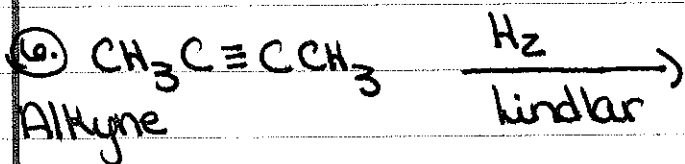
E.A.: Halonium int.: Halogenation



5.

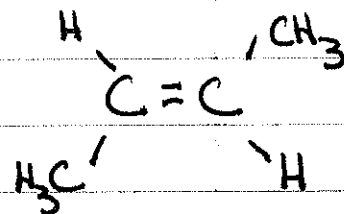
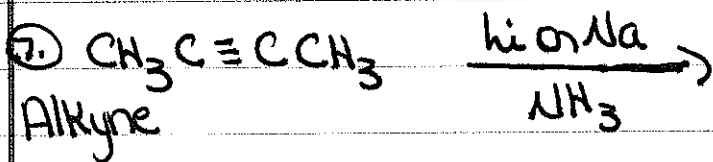


Reduction: Hydrogenation: Pd = Catalyst



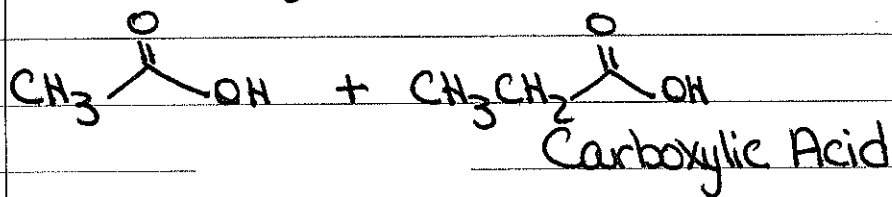
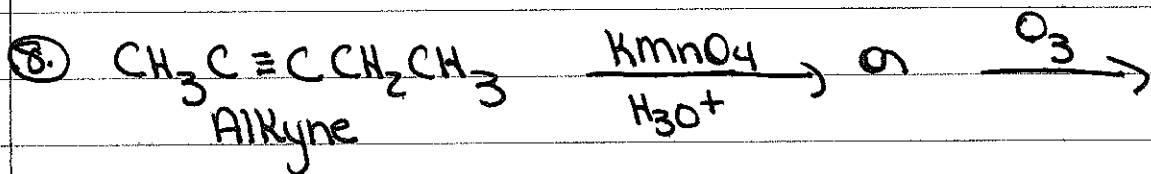
Cis Alkene

Reduction: Hydrogenation: Lindlar =
poisoned catalyst

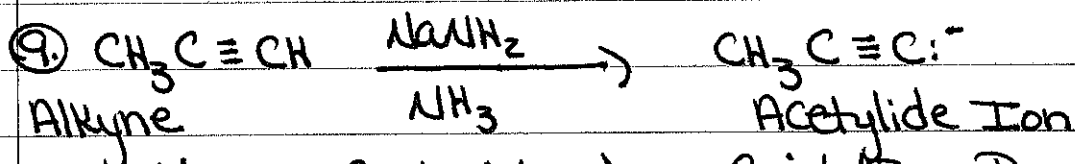
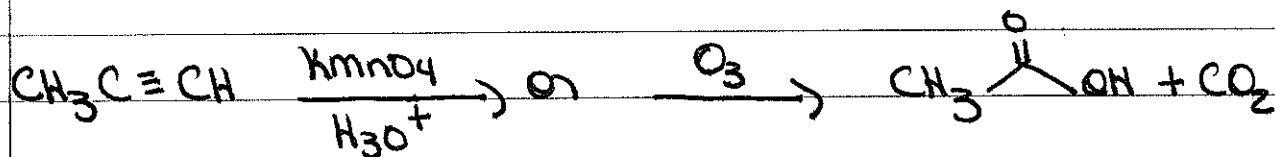


Trans
Alkene

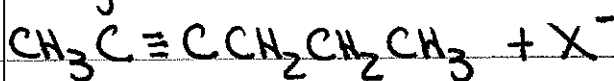
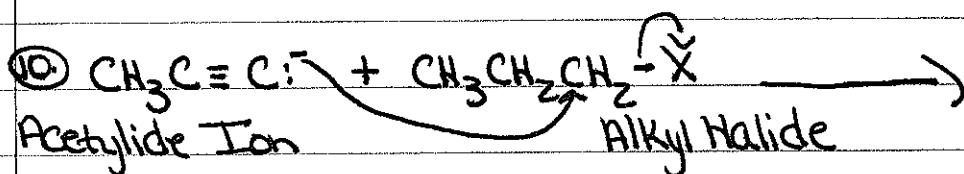
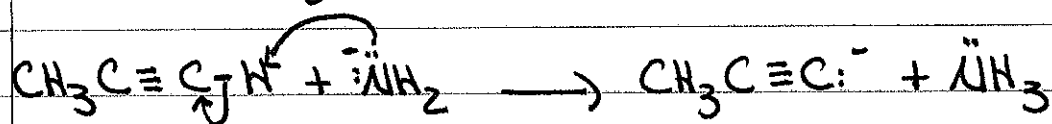
Reduction: Dissolving Metal Reduction



Oxidation : Cleavage : Ozonolysis (O_3)

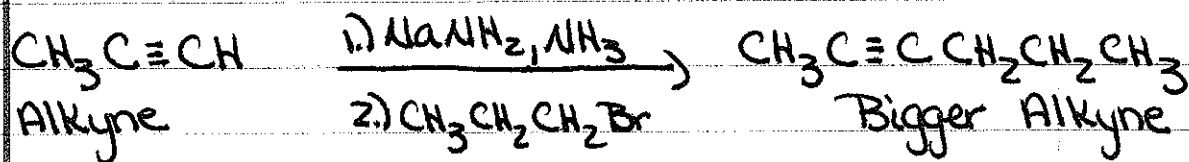


Formation of Acetylide Ion: Acid/Base Rxn

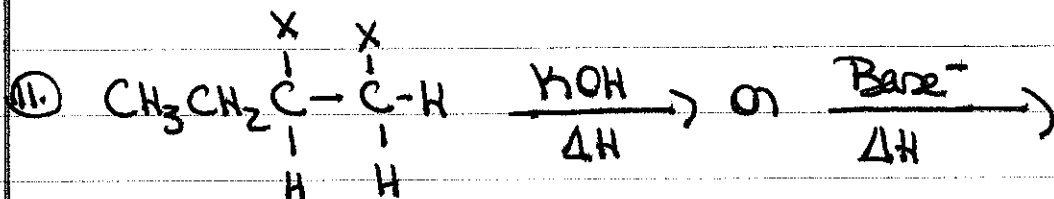


Alkylation / Homologation (Add C): $\text{S}_{\text{N}}2$

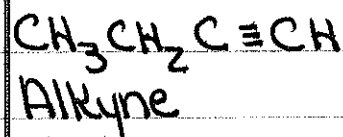
* Sometimes, you can see 9+10 combined



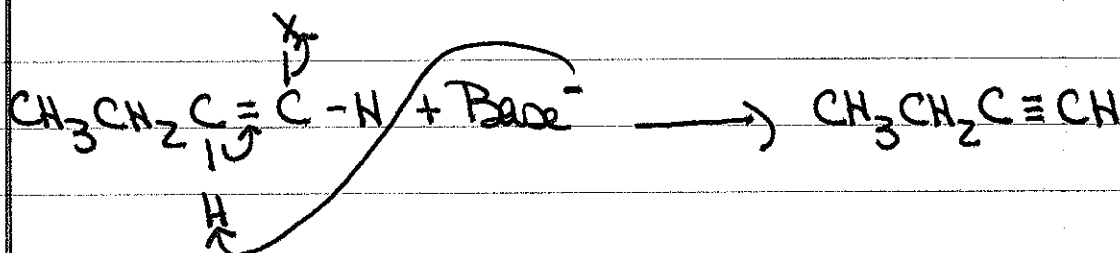
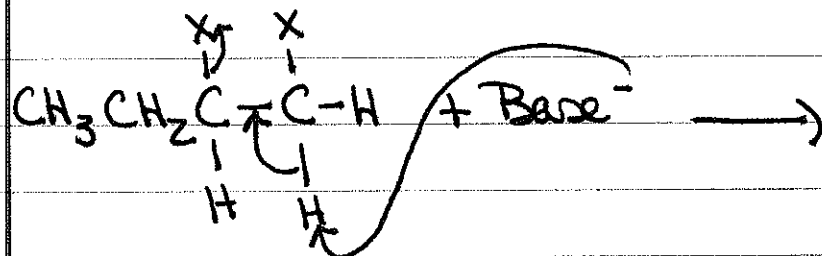
Acetylide Ion Formation + Alkylation:
Acid / Base + $\text{S}_{\text{N}}2$



Dihalide



Elimination (E_2): Antiperiplanar Geometry
must be achieved



vinyl halide