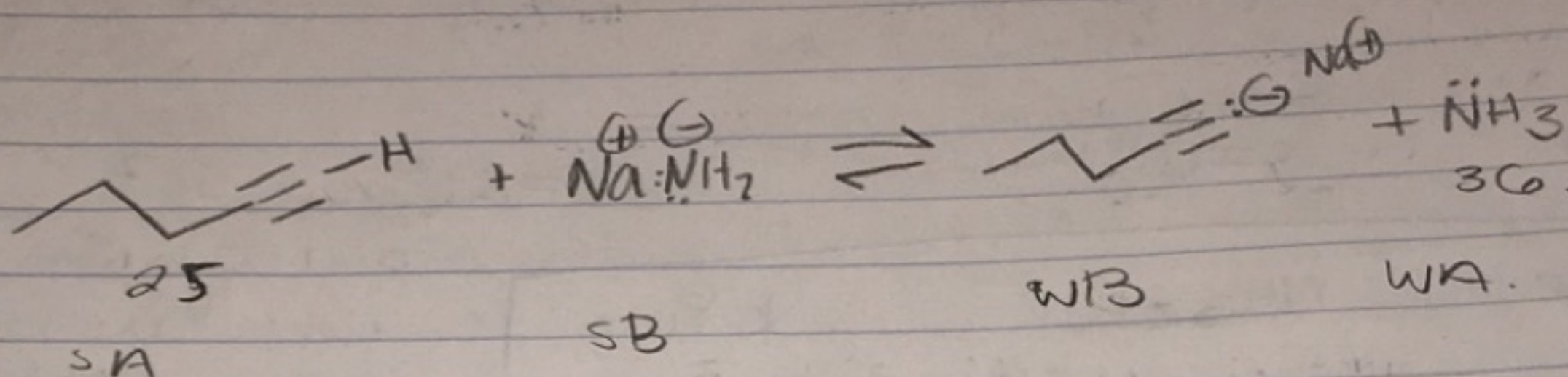


Synthesis of Internal Alkynes from Acetylene + Terminal Alkynes

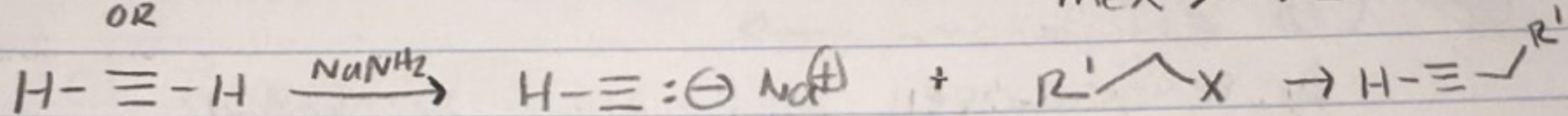
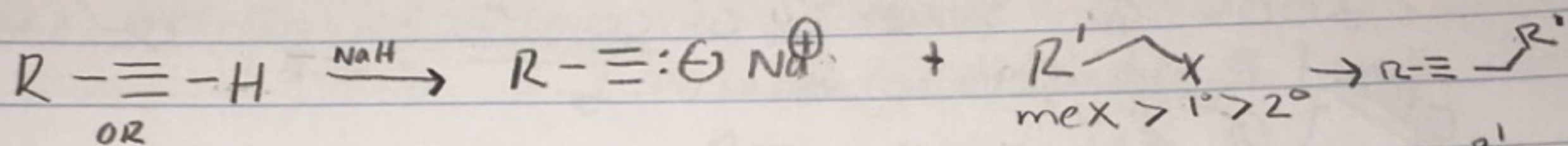
so.



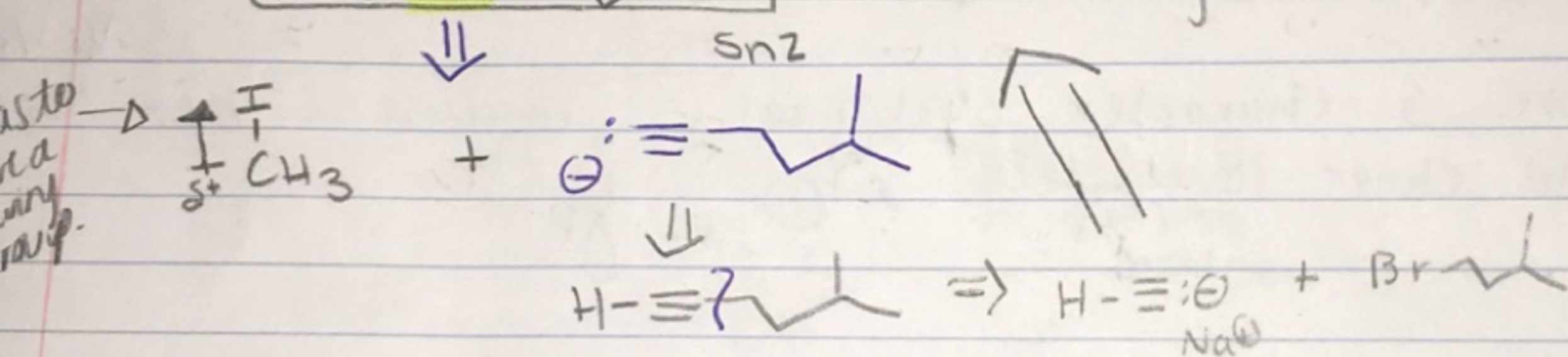
Products are favoured! $36 - 25 = 11$ orders of magnitude.
 $\sim 10^{11}$ ← if favored over 10^9 it is a complete reaction

* C-C bond forming reactions *

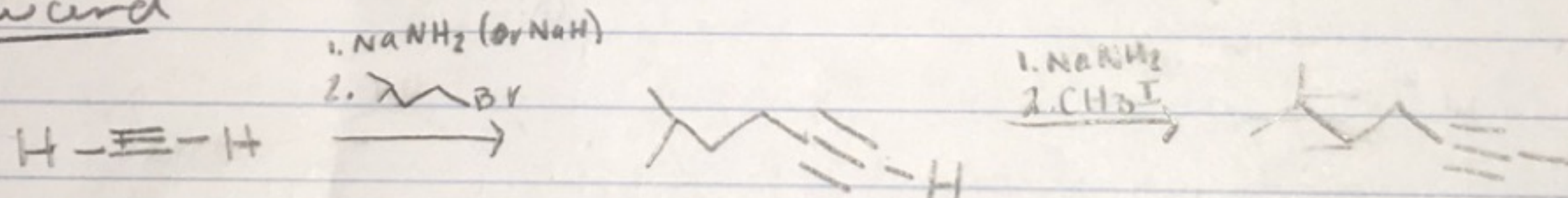
• S_N2 Reactions w/ Acetylide (Alkylation)



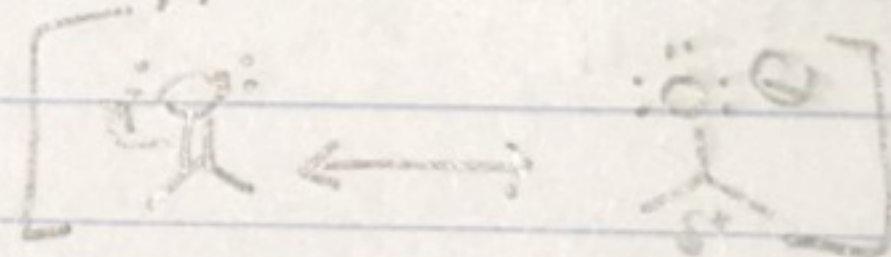
ex. CH₃CH₂CH₂C≡CH synthesis from: CH₃CH₂CH₂C≡CH + any alkyl halide (RX)



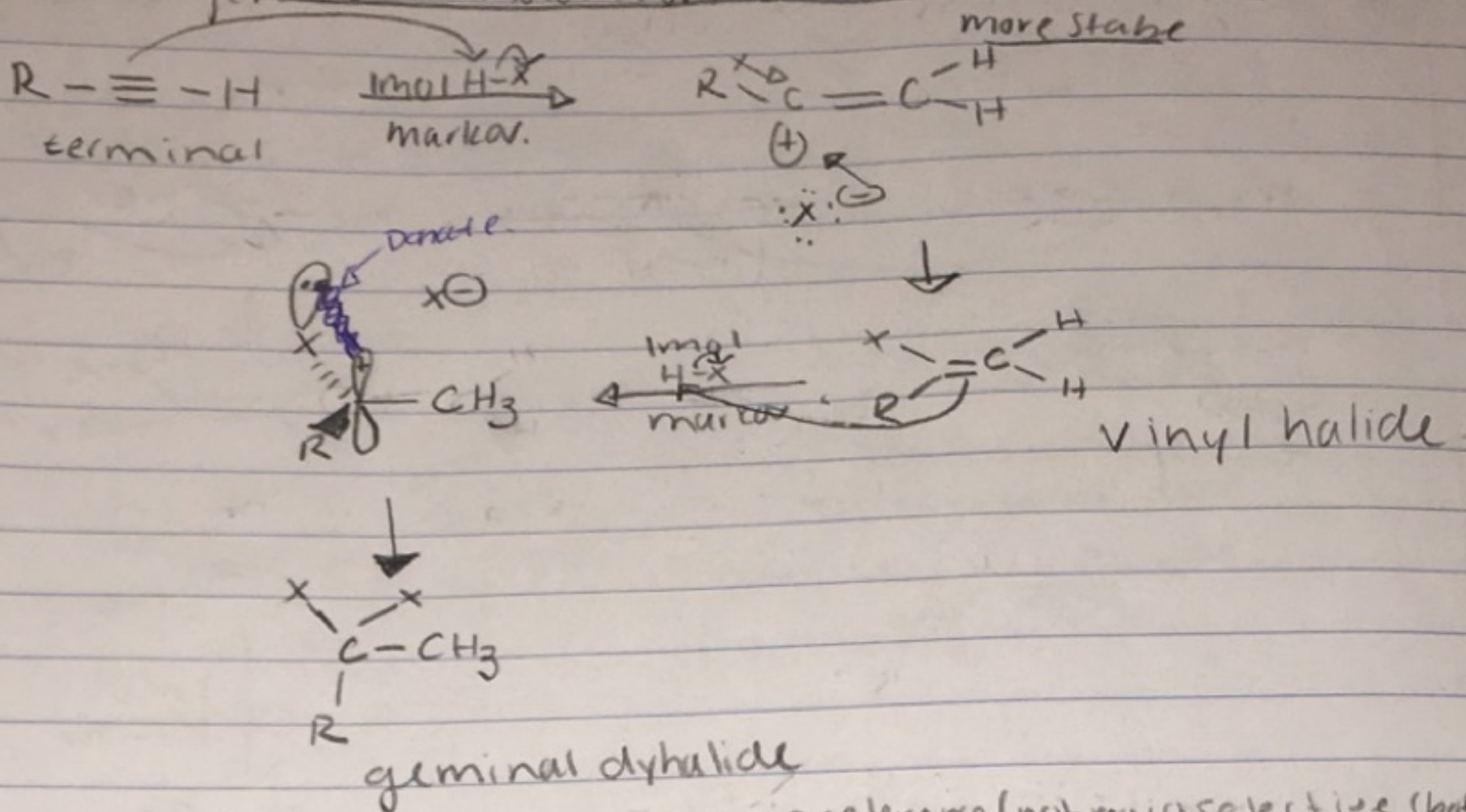
Forward



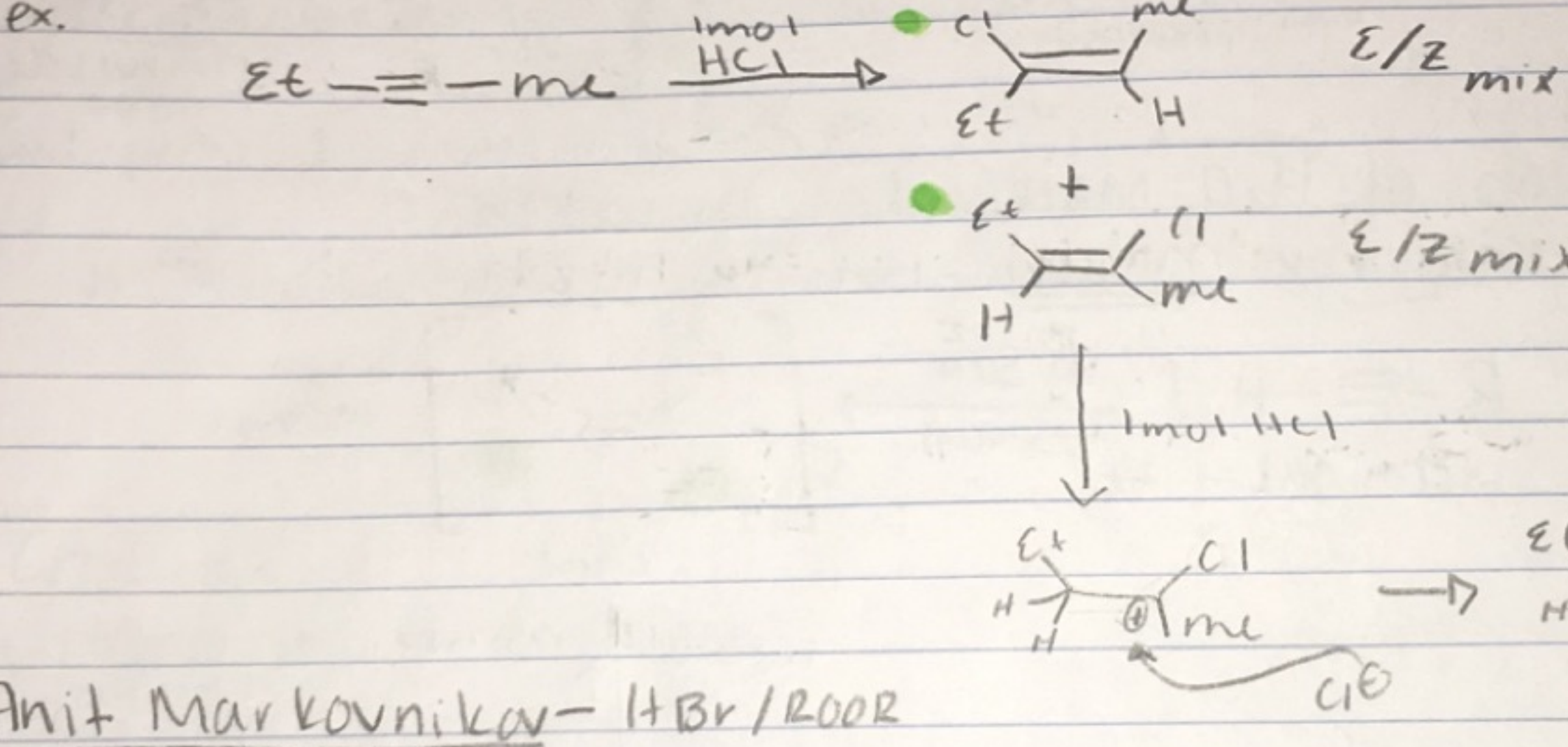
Also do w/ other E^+ ; carbonyls



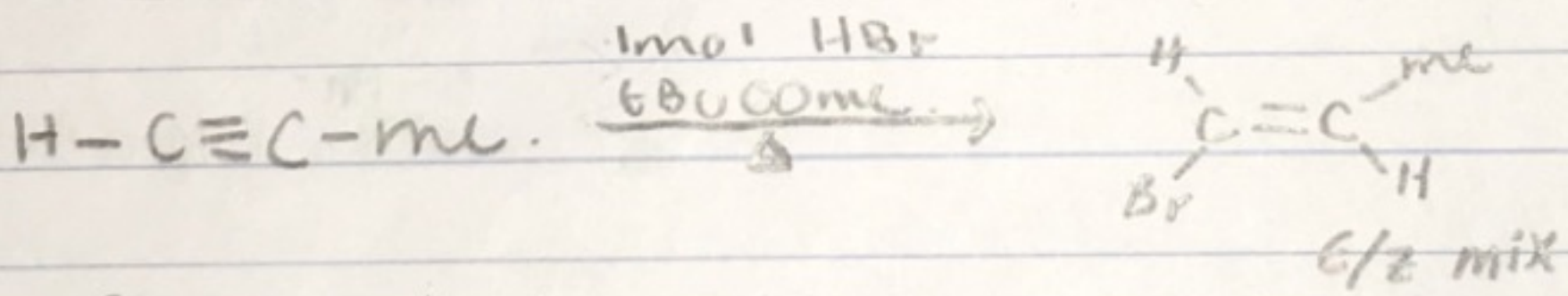
Hydrohalogenation: Addition of H-X (X=Cl, Br, I)



If disubstituted, Markov. $\rightarrow$ no preference (not regioselective (both ways)) In 1st addition



Anti Markovnikov - HBr / ROOR



* problem 9-17 radical mechanism review