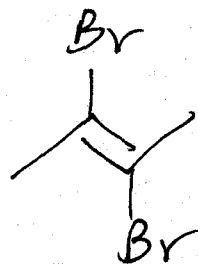
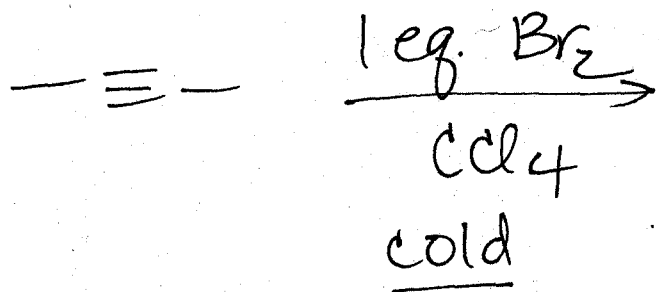
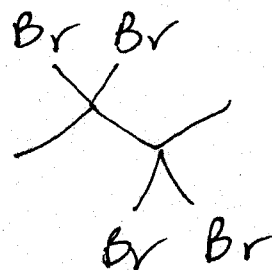
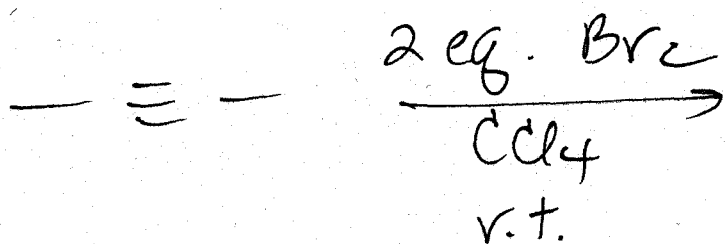


Addition Rxns to Alkynes

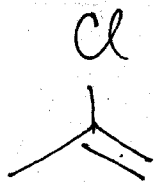
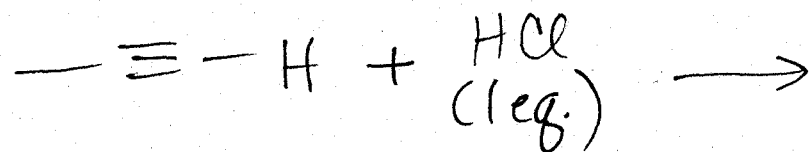
1. Br₂/CCl₄ (or Cl₂)

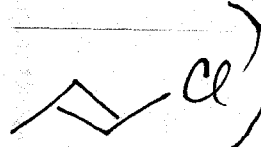


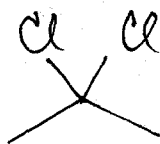
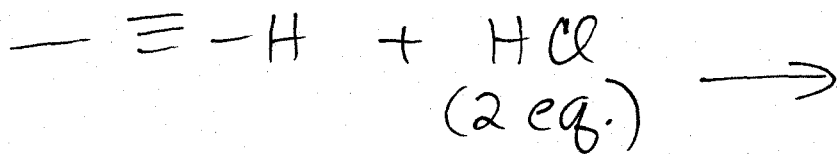
* can stop here b/c e⁻ withdrawing halogens deactivate the alkene.



2. HX (Markovnikov)

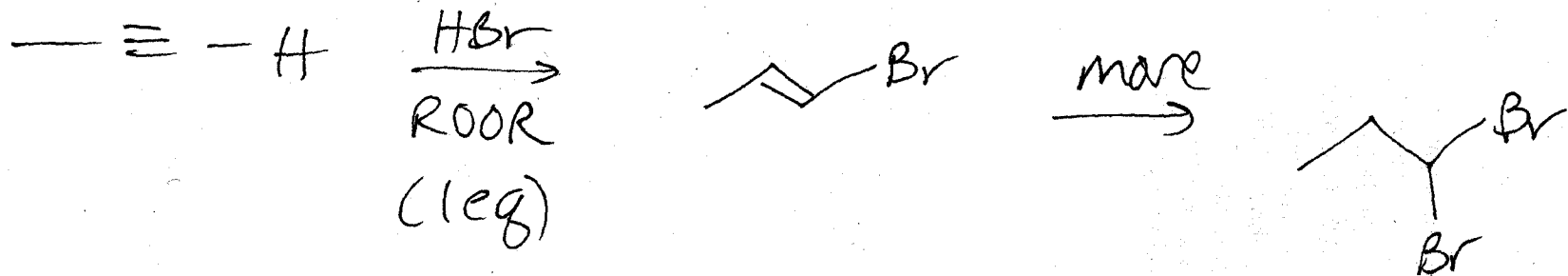


(not )

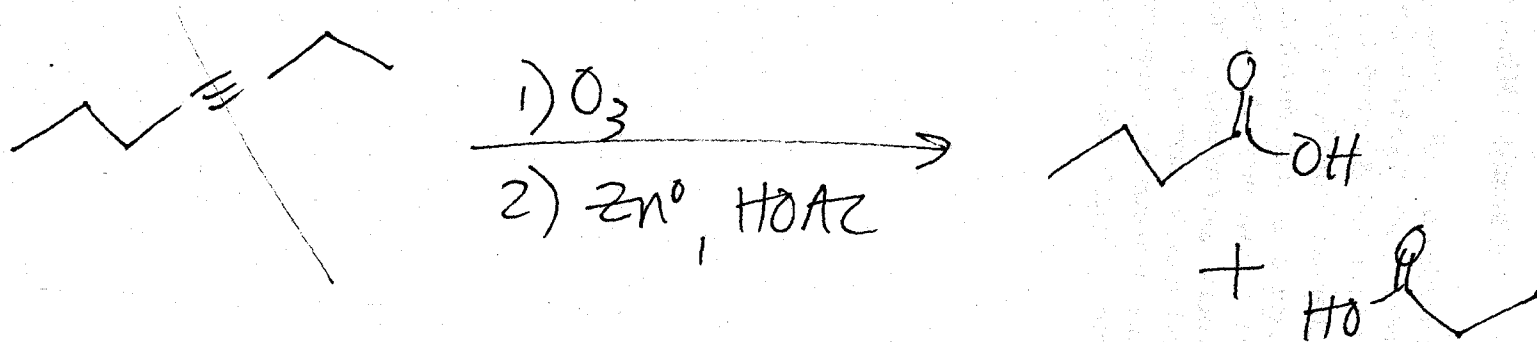


gem-dihalide

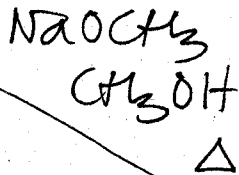
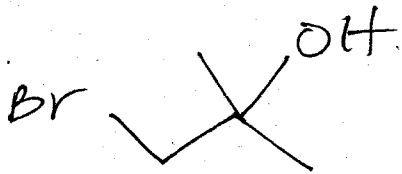
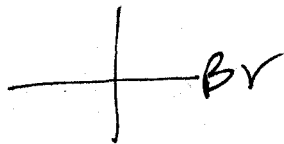
Use HBr/ROOR - anti Markovnikov add'n



3. Oxidative cleavage - O_3 or KMnO_4
both give carboxylic acids.



Synthesis



(E2)

