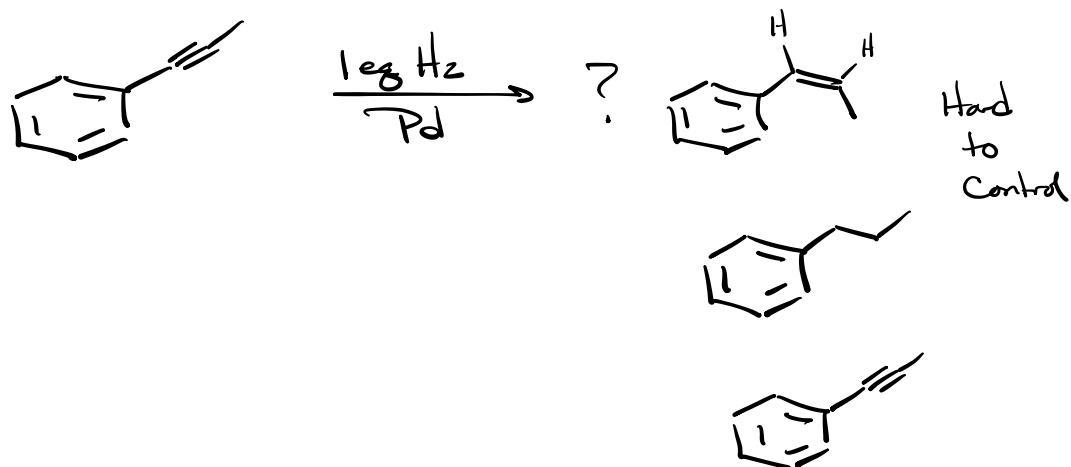
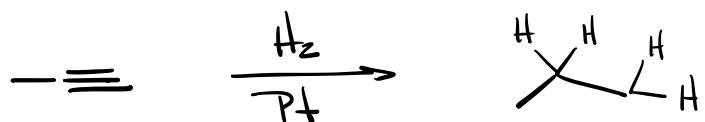
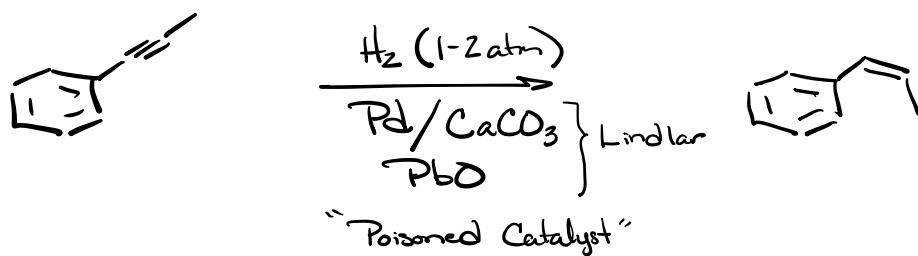


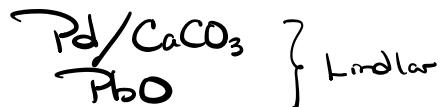
Alkynes Cont.

Catalytic Hydrogenation



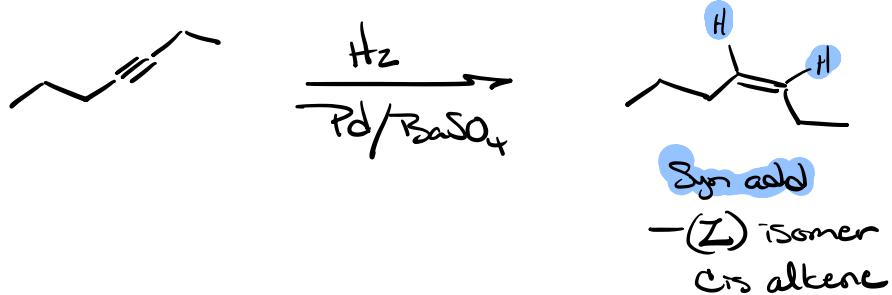


Different Poisoned Catalysts



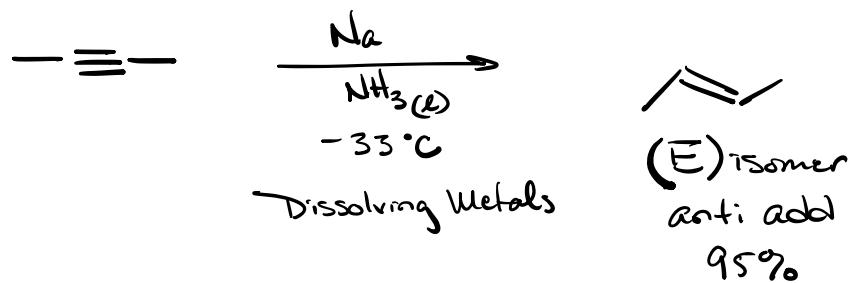
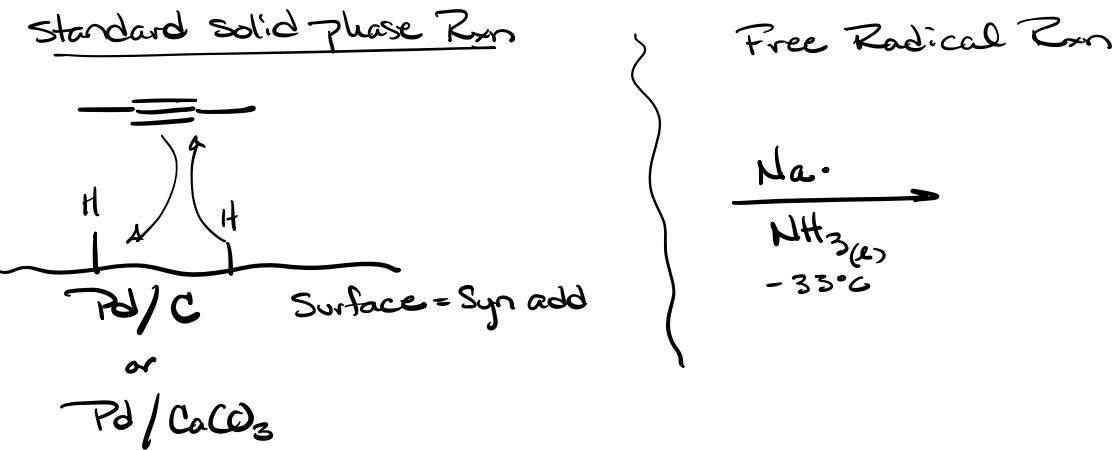
6

more most have either
 CaCO_3 or BaSO_4

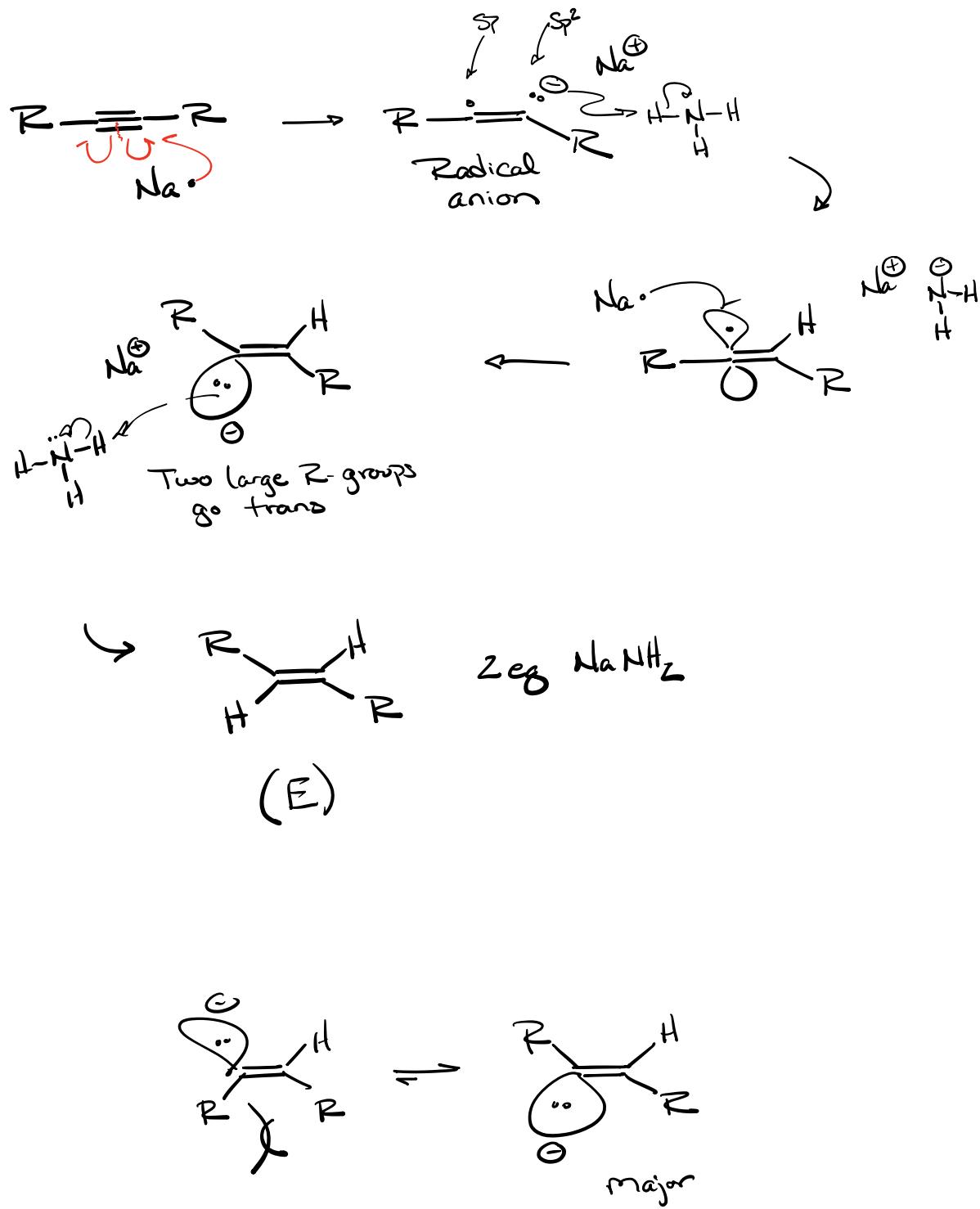


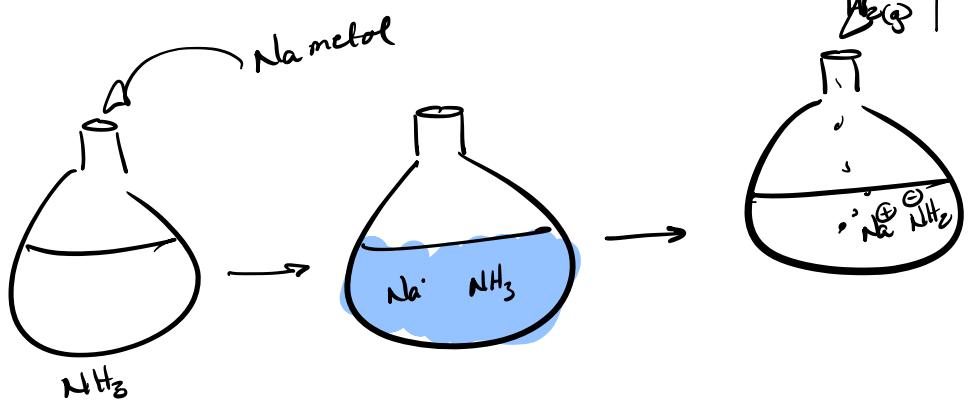
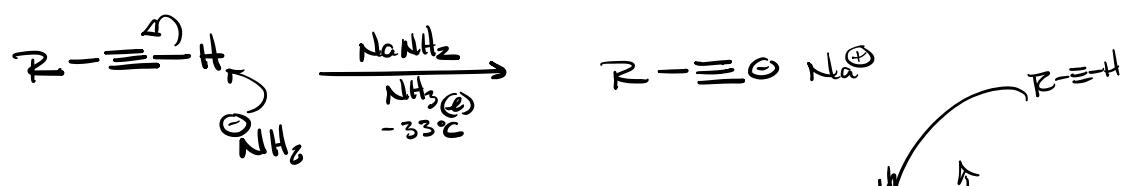
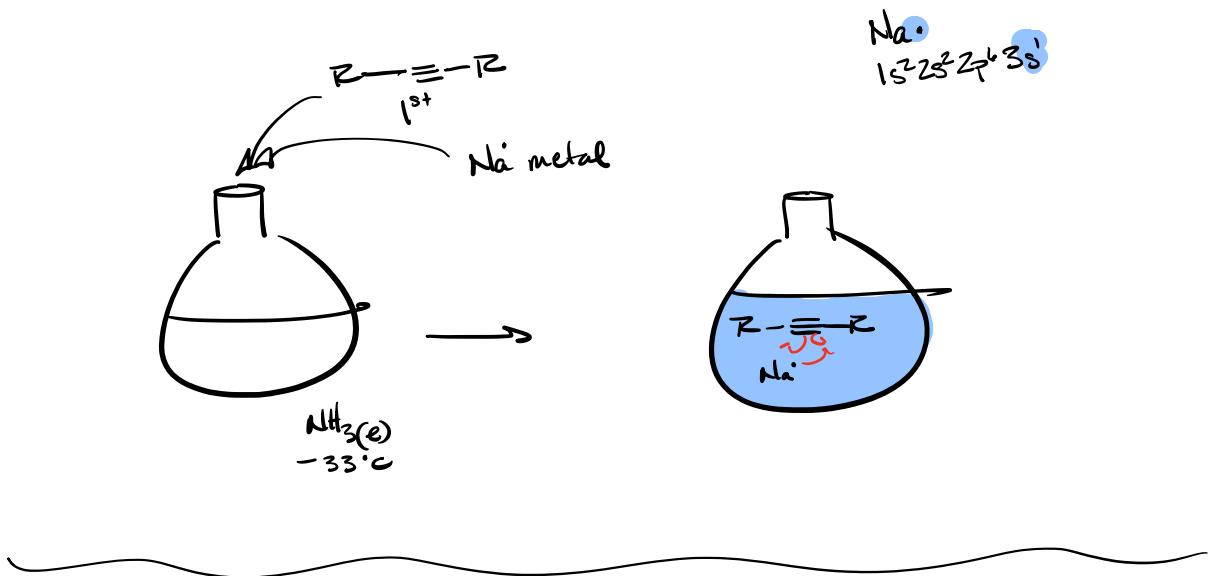
what about (E) isomer? How do we get the E isomer? \Rightarrow Anti add

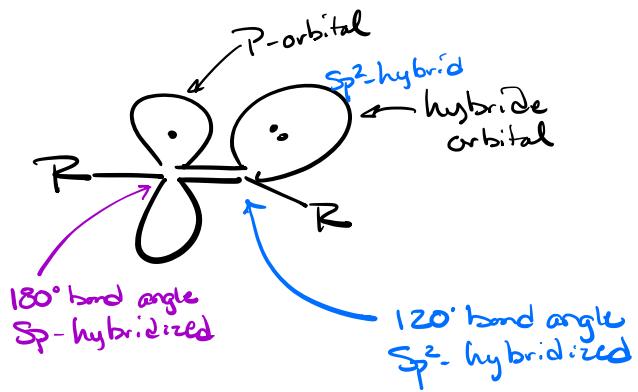
Need different mechanism



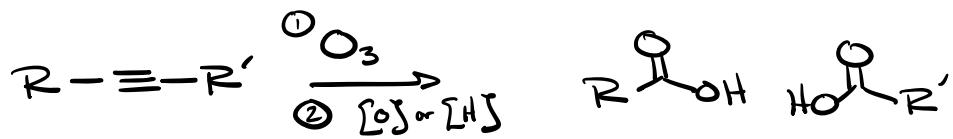
General Free Radical Reduction





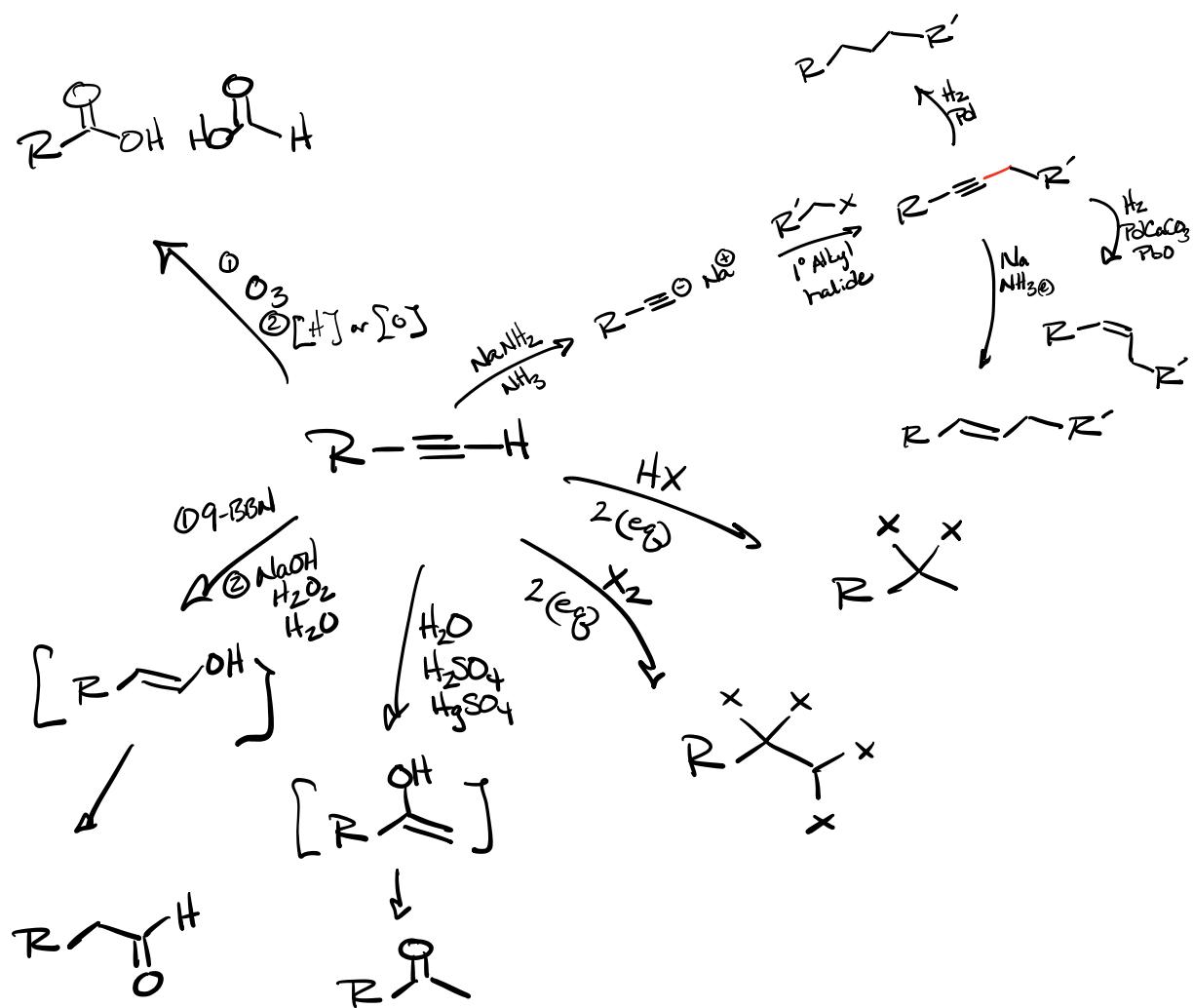


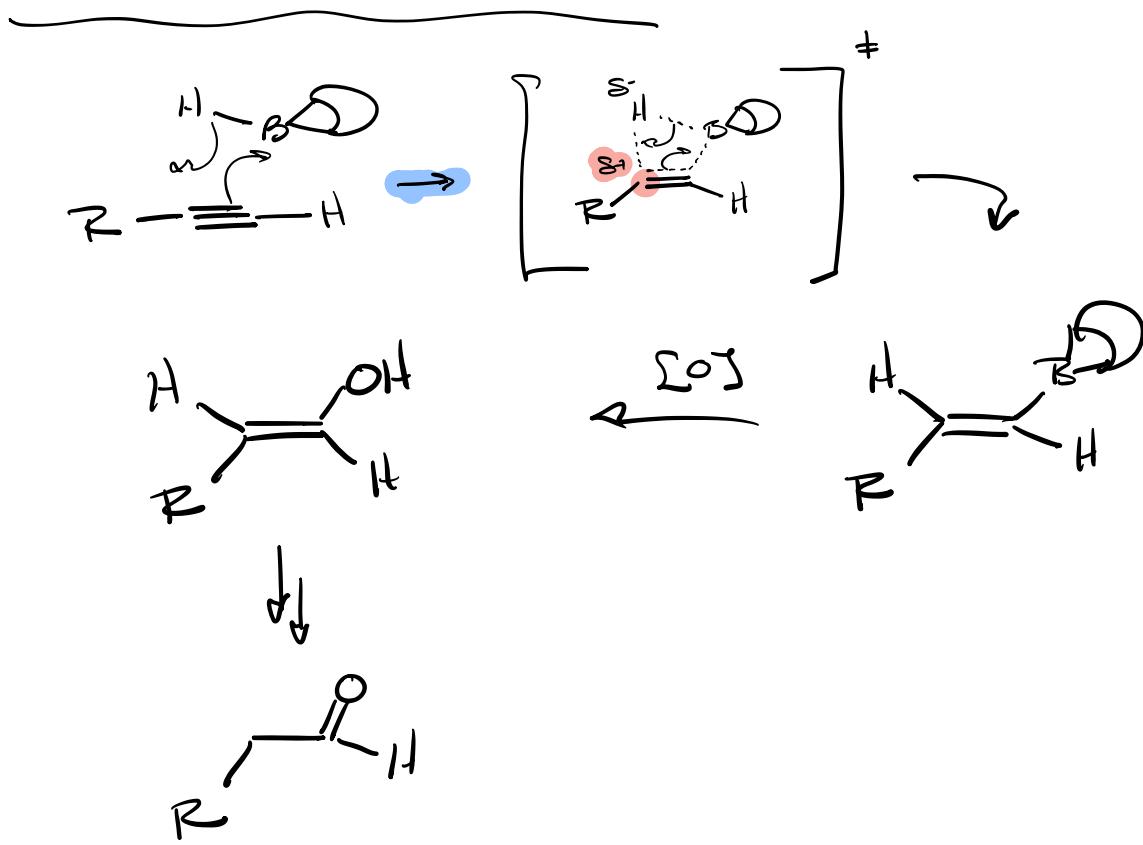
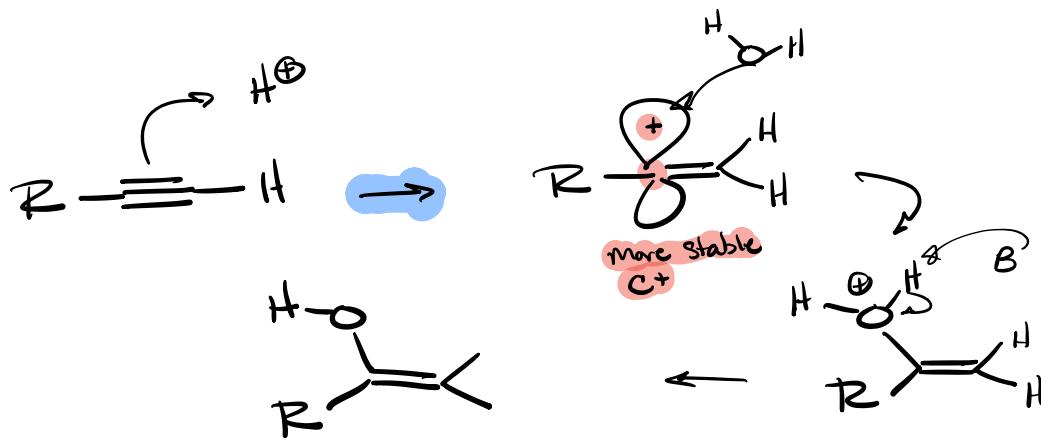
Ozonolysis



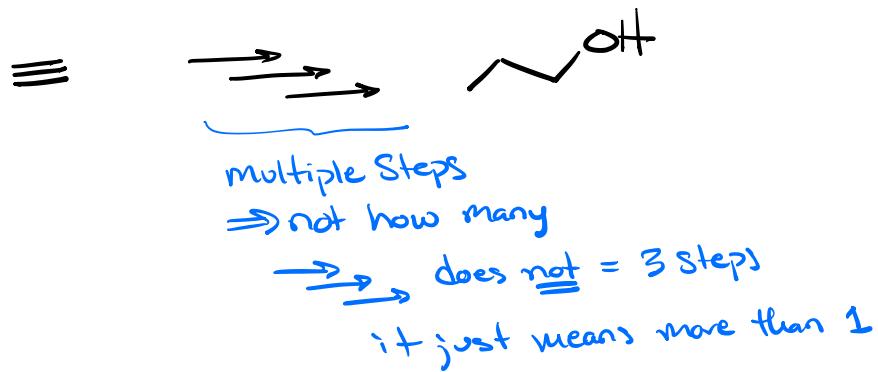
Both oxidative & reductive
give Carboxylic acids w/
alkynes

Star Chart





Synthesis w/ Alkenes & Alkynes



Retrosynthetic analysis

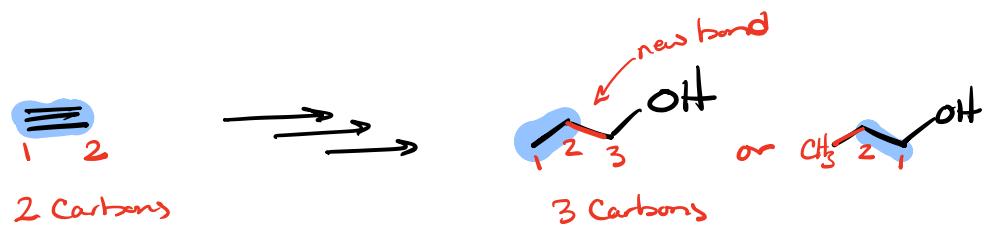
\Rightarrow working Backwards

\longrightarrow Reaction Arrow

\rightleftharpoons Equilibrium Arrow

electron flow $2e^-$

electron flow $1e^-$



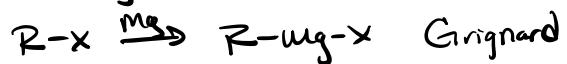
① Map Problem

- Add Carbon
- Add OH group

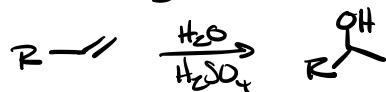
* Not only look at what has changed, but also locate existing carbons in the target

② Brainstorm Reactions

- How many Rxns add C ?

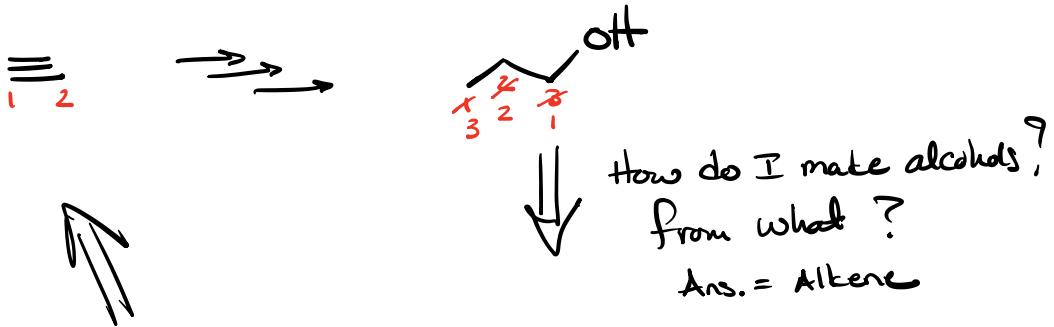


- How many Rxns add OH ?

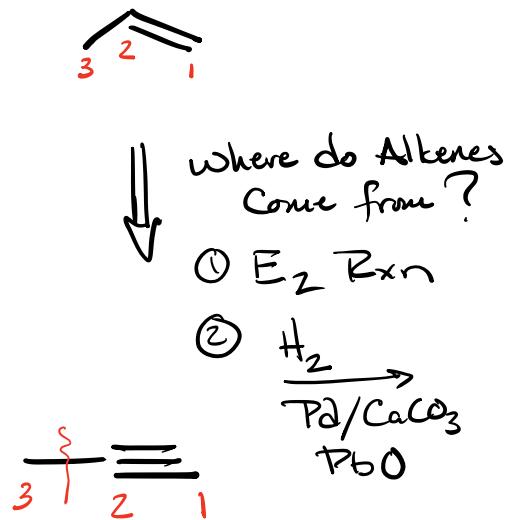


③ Plan Retrosynthesis

- w) Brainstormed Rxns in mind



Where
do Alkynes
Come from?



④ write in forwards direction

