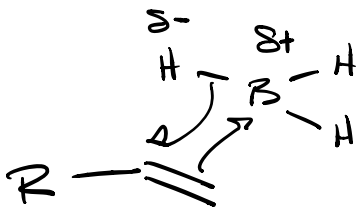
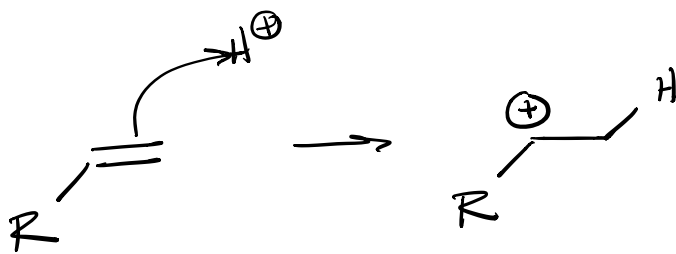
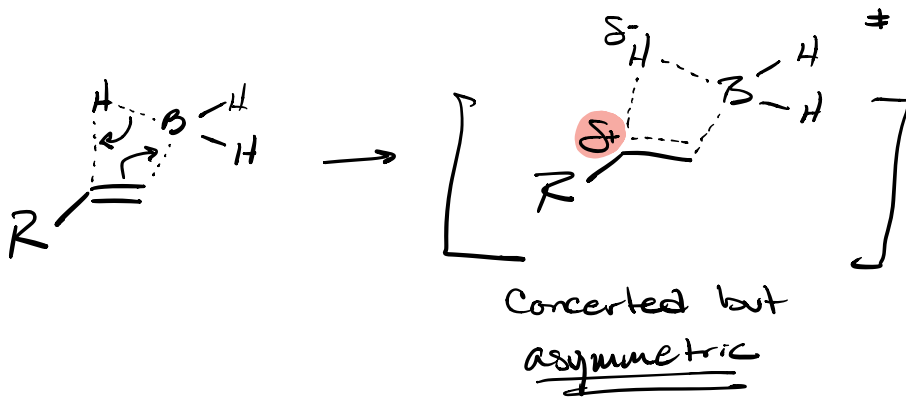
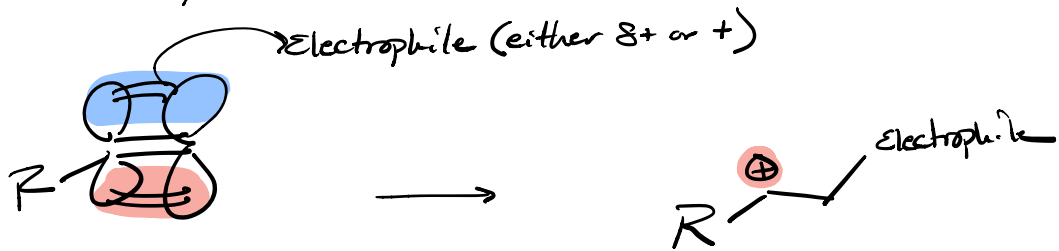
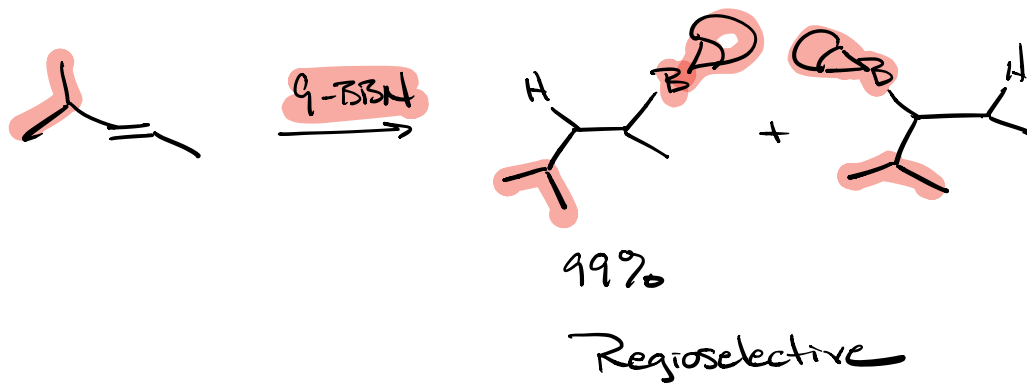
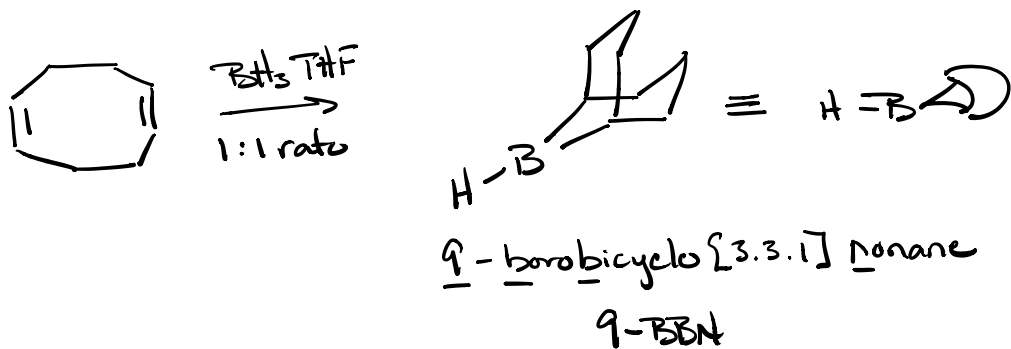
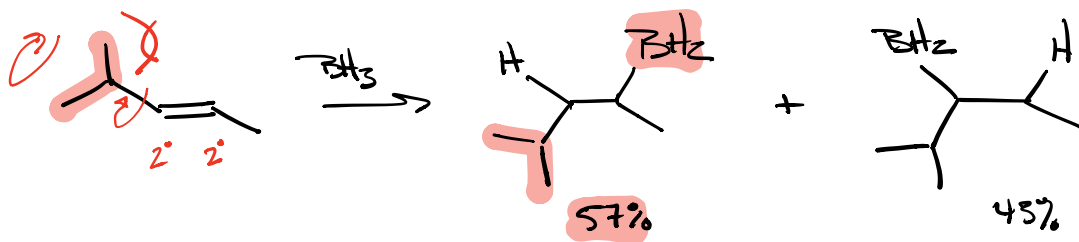


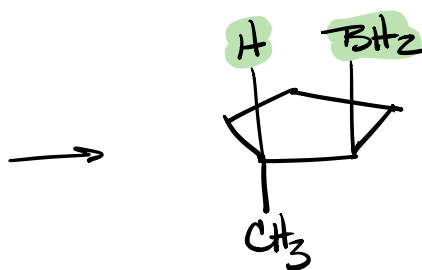
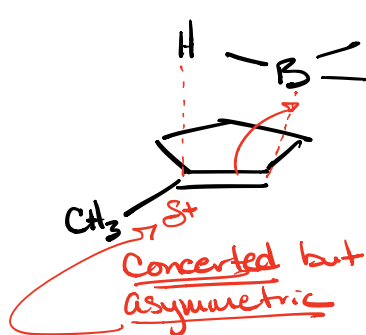
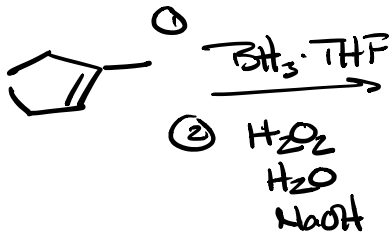
Recap

Electrophilic Addition to Alkenes





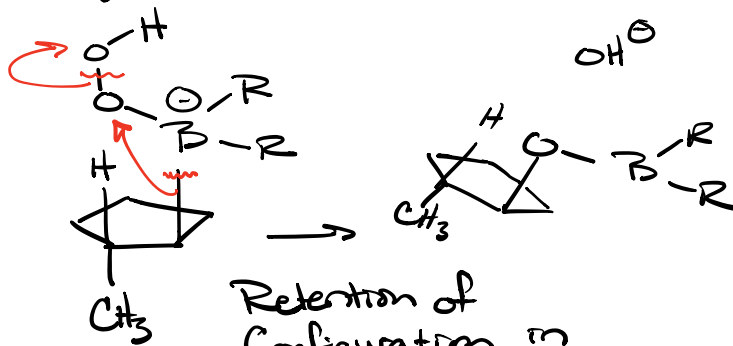
Boron is also stereoselective



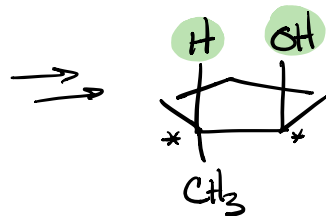
Hydrogen & Boron added from same face  
 $\Rightarrow$  stereoselective

$\Rightarrow$  Syn addition  
"from same face"

Oxidation occurs w/ Retention of Configuration



Retention of Configuration in Oxidation Rxn.

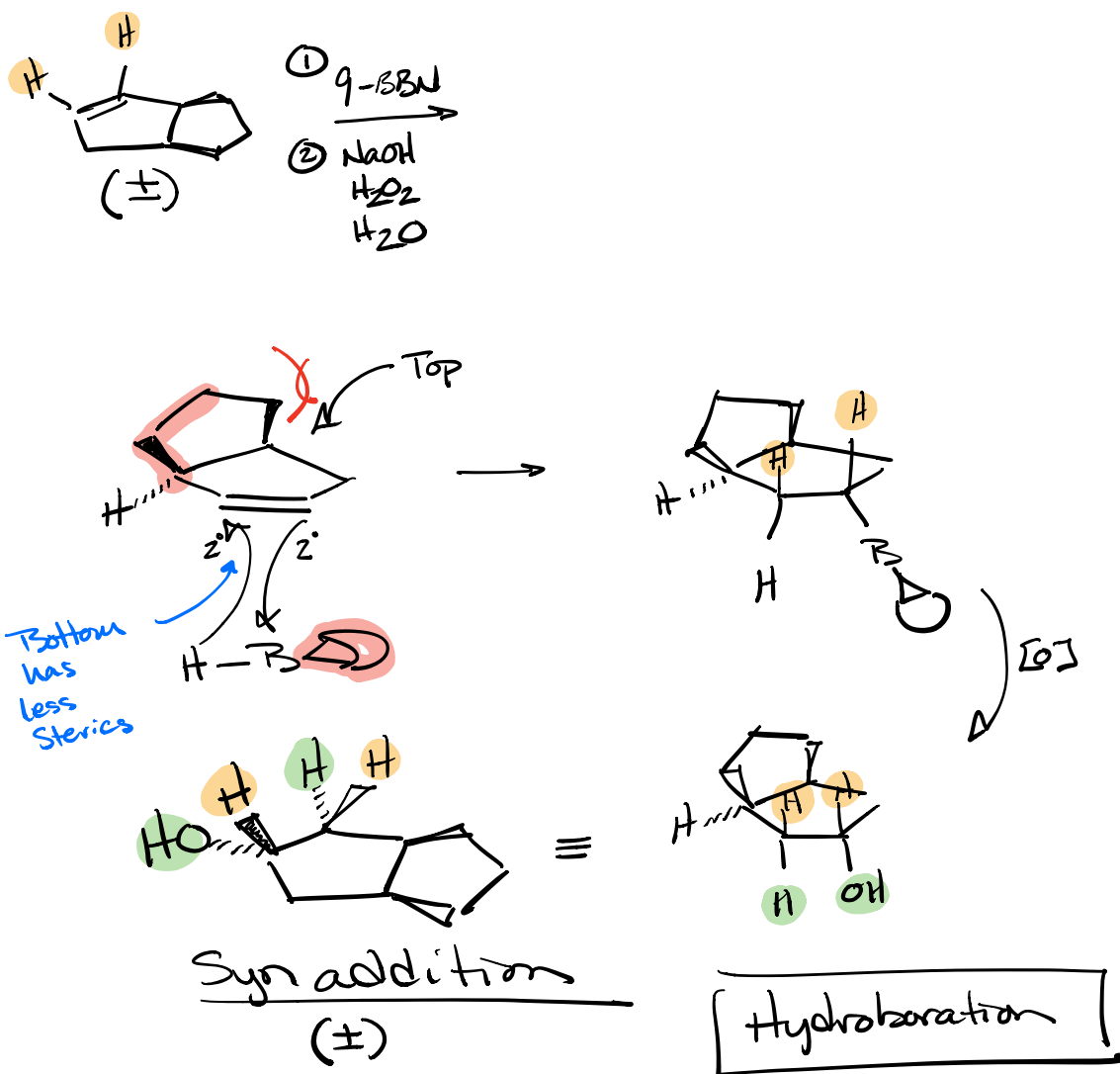


Syn addition

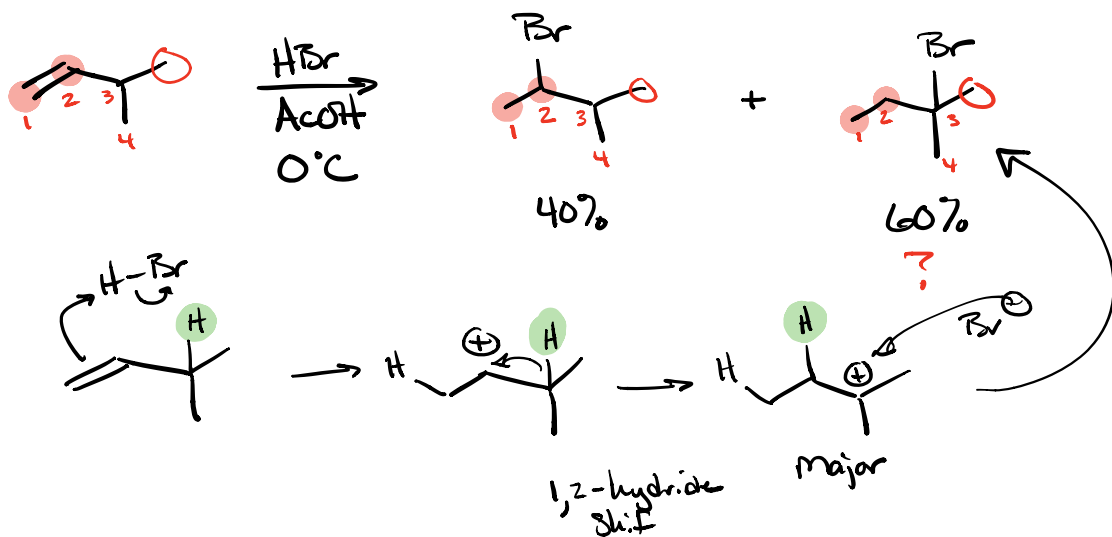
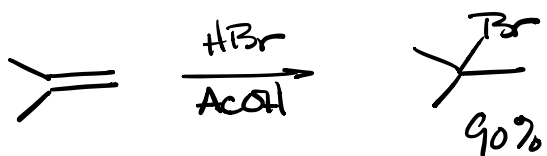
Hydroboration is both

Regioselective - Selective for one side of the double bond governed by electronics or Sterics.  
9-BBN  
BH<sub>3</sub>

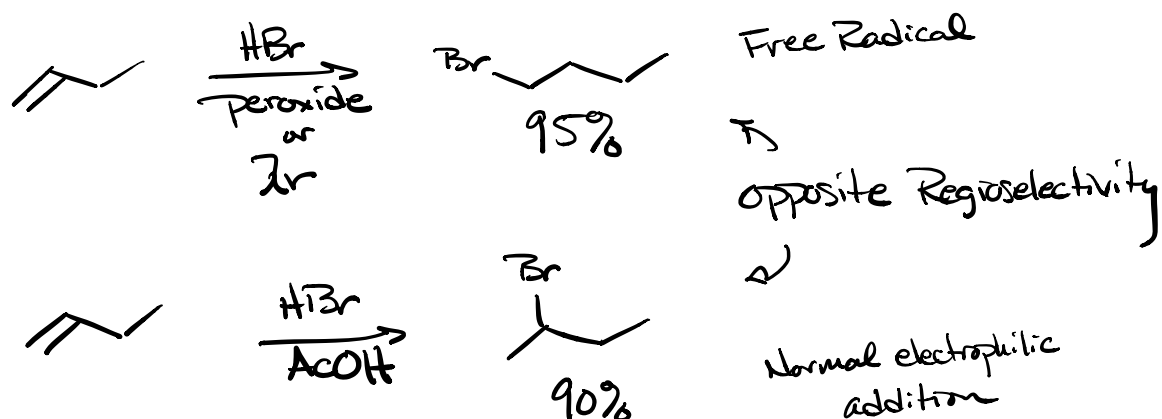
Stereoselective - Selective for one set of enantiomers by Syn addition & oxidation w/ retention of configuration.



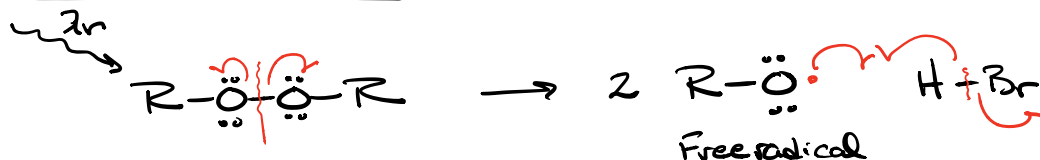
# Hydrohalogenation



# Free Radical Hydro Halogenation (halogen add first)



## Mechanism

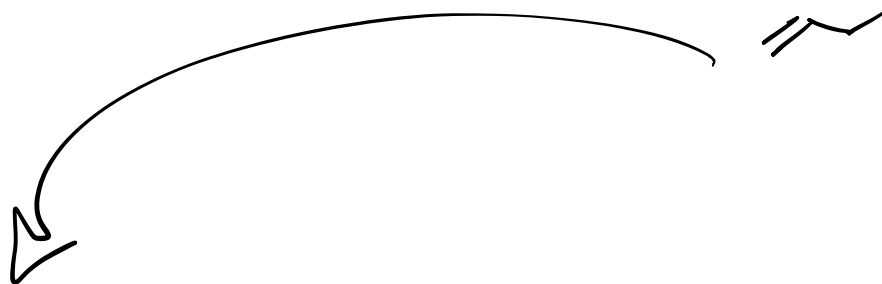


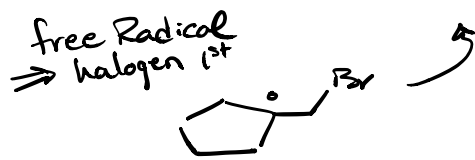
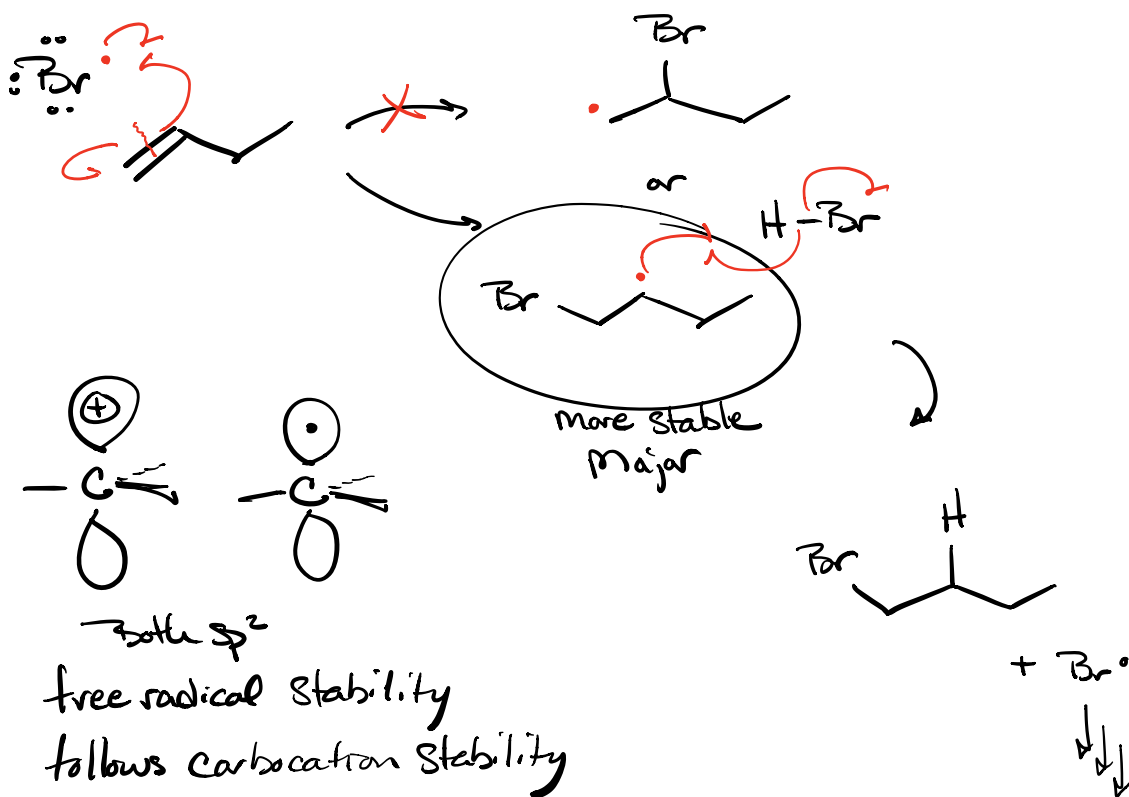
↘ movement of  $2e^-$

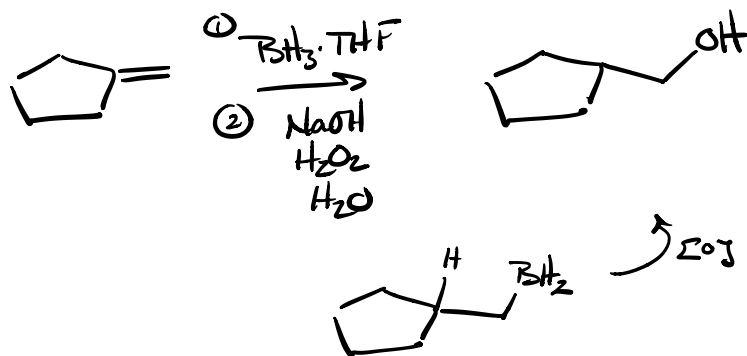
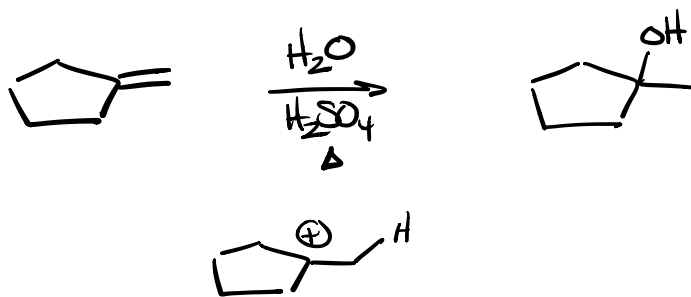
↘ movement of  $1e^-$

↓  
R-OH alcohol byproduct

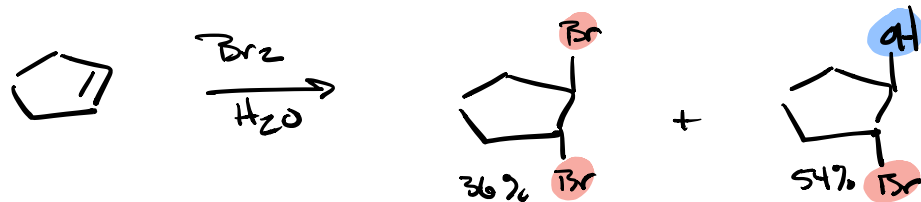
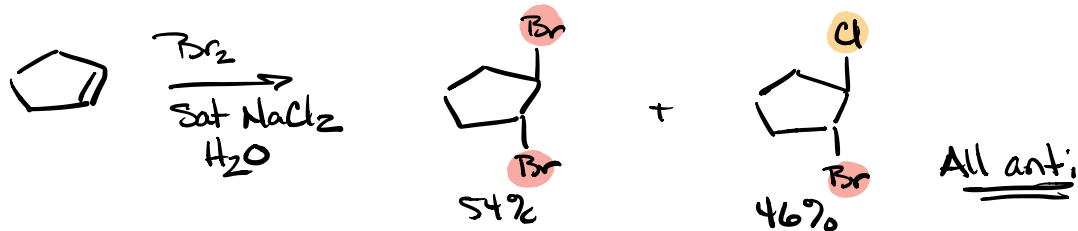
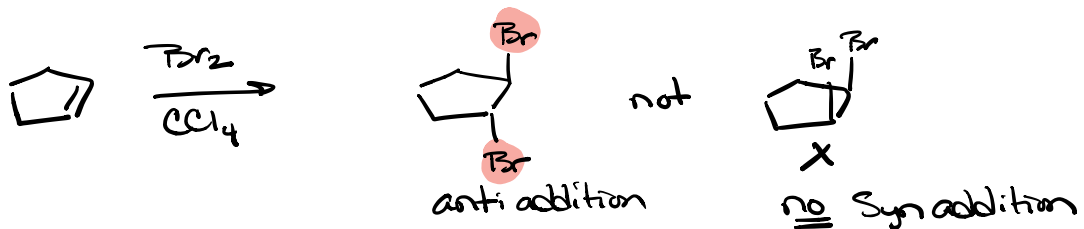
$\cdot\ddot{\text{Br}}$  Bromine Radical







## Halogenation





# Mechanism

