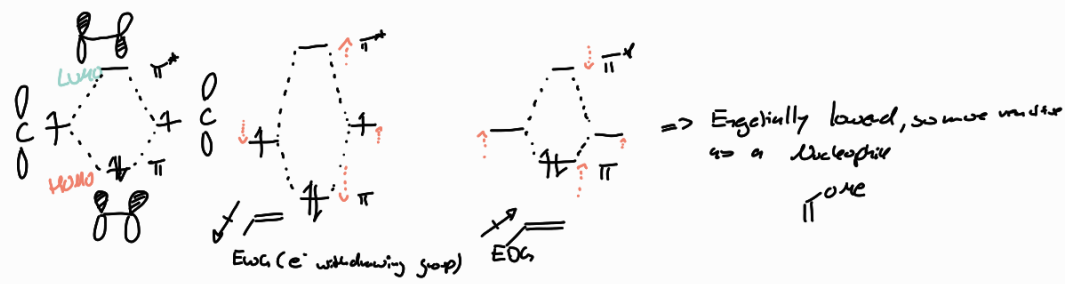


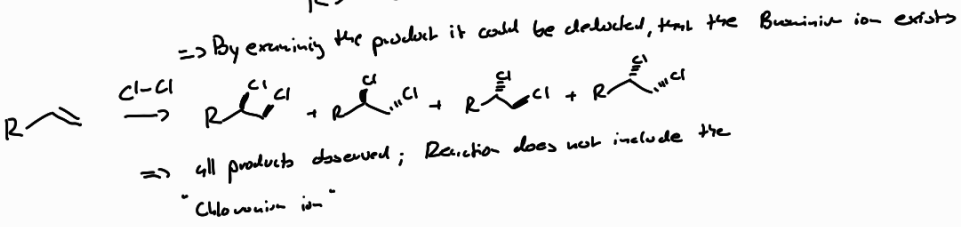
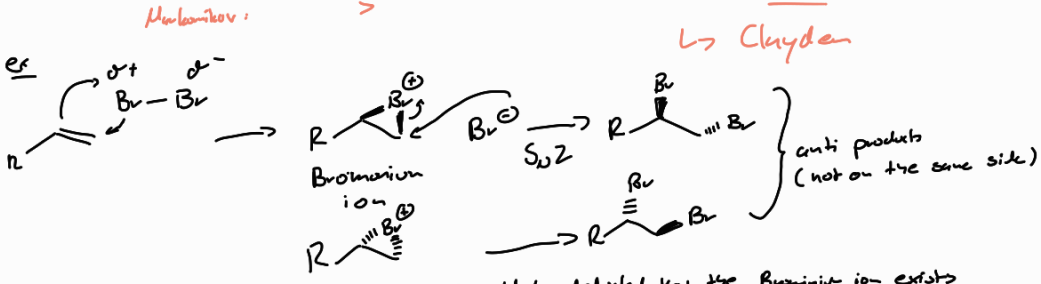
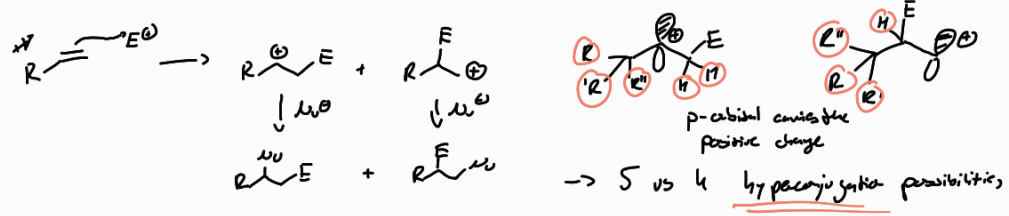
# Nucleophilic alkenes Ch. 19

C-C	378	$\frac{kJ}{mol}$
C=C	728	$\frac{kJ}{mol}$ (+ 351 $\frac{kJ}{mol}$ )
C≡C	962	$\frac{kJ}{mol}$ (+ 237 $\frac{kJ}{mol}$ )

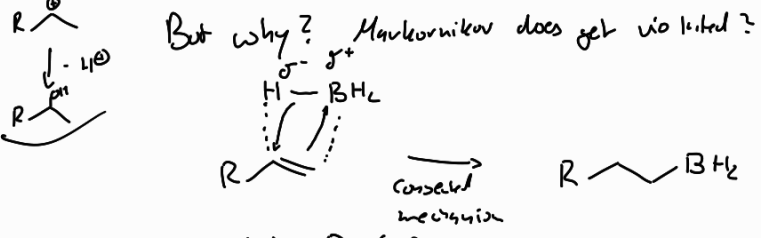
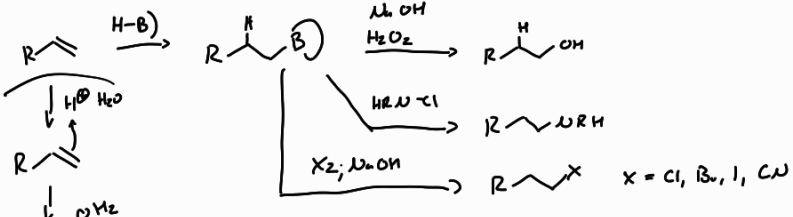


=> Reactivity decreases, pi is energetically more stable  
 -> reacts as electrophile  
 $\text{F}^-$ ;  $\text{C=O}$ ;  $\text{NO}_2$

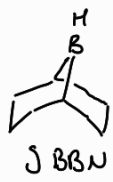
Markovnikov rule: 'Most EW atom ends up on most substituted carbon'



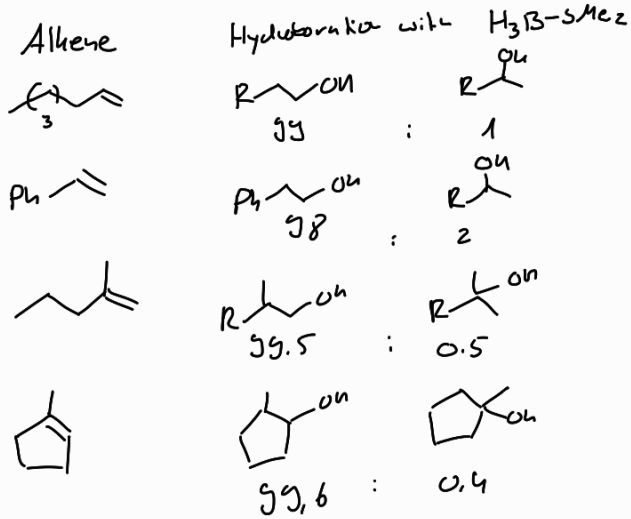
## Hydroboration



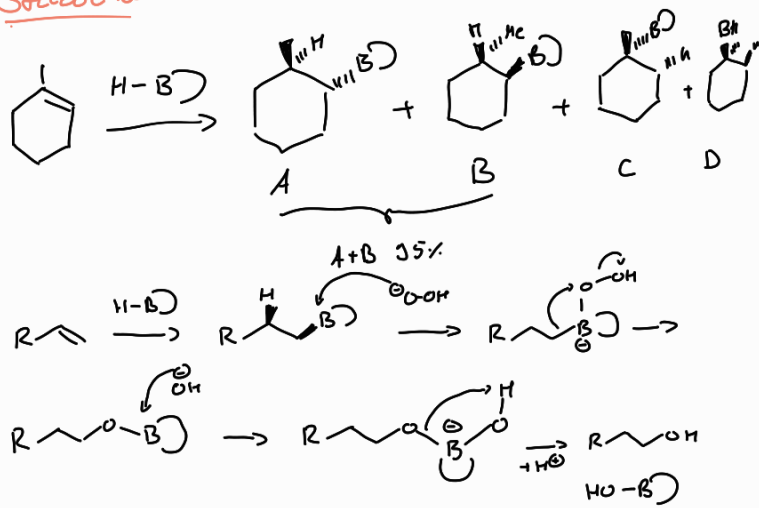
EN(B) < EN(H)  
 different Boronhygens:  $\text{H}_3\text{B-SMe}_2$ ;  $\text{H}_3\text{B-NMe}_2$ ;  $\text{H-B-O-C(CH}_3)_3$ ;



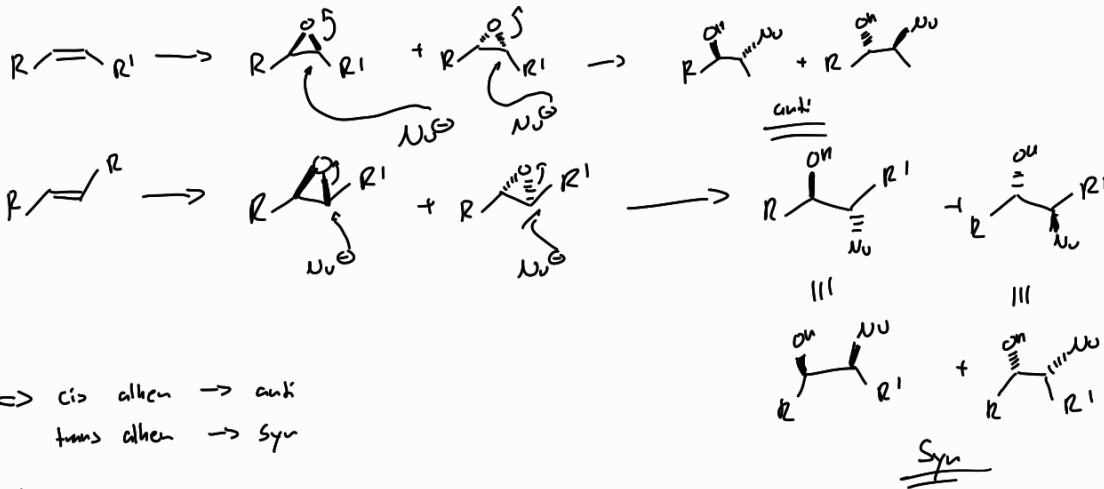
## Different reactivity



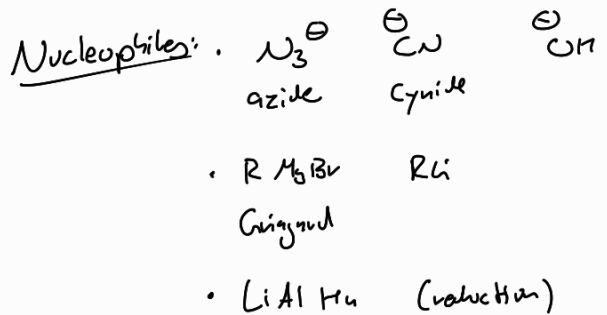
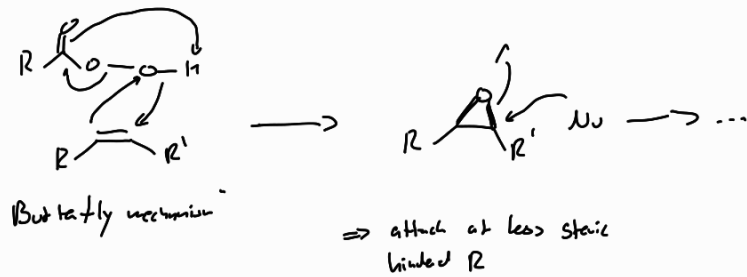
## Stereochem



## Epoxidation



## Mech



## Dihydroxylation

