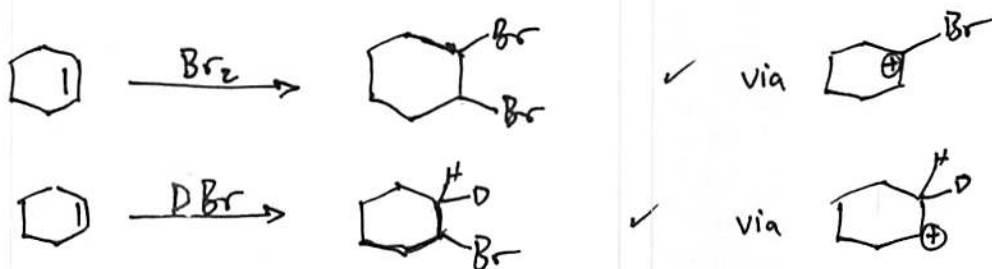
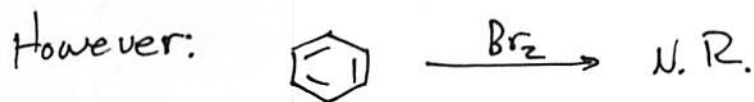


Electrophilic Aromatic Substitution

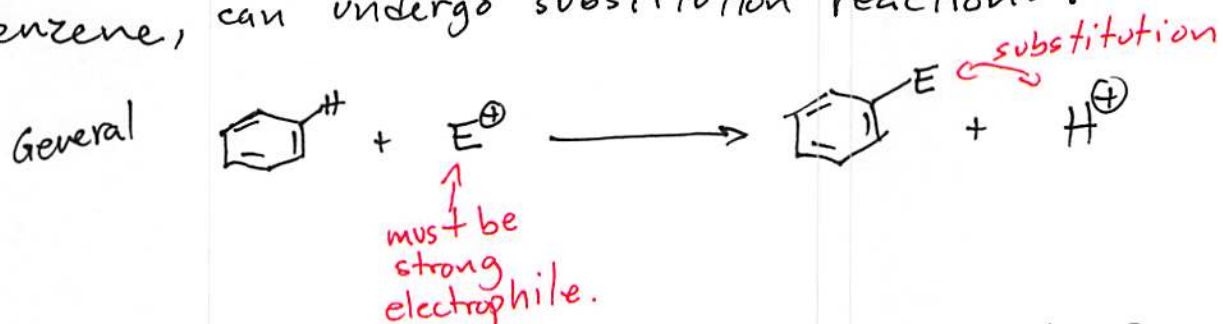
Recall the chemistry of alkenes? - Ionic Electrophilic Addition of Br_2 or HBr



The reactions above proceed via the carbocations \nearrow



In general, many aromatic molecules do not undergo typical reactions like alkenes (Addition reactions). However, in some cases, aromatic compounds, like benzene, can undergo substitution reactions:

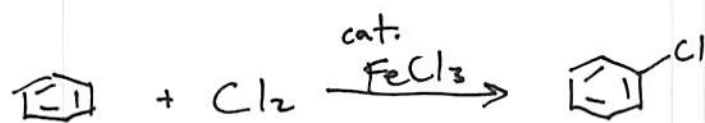


Interestingly, benzene can be brominated with Br_2 using FeBr_3 as a catalyst to make Br much more susceptible to an electrophilic attack. How?

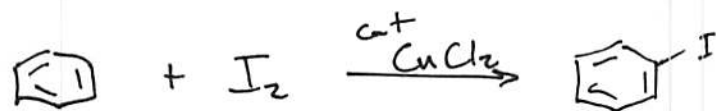
Wow time!

Other Electrophilic Aromatic Substitutions. (Halogenations)

Chlorination



Iodination



Similar mechanisms,

