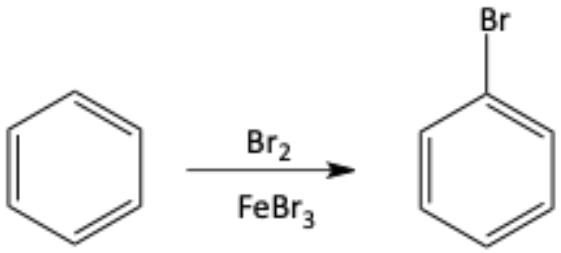
Aromatic Reaction Review: Answer Key

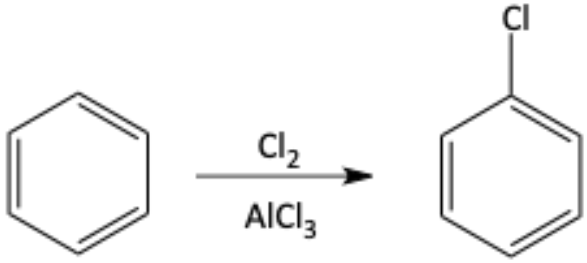
All reactions, complete.

Name: _____ Date: _____

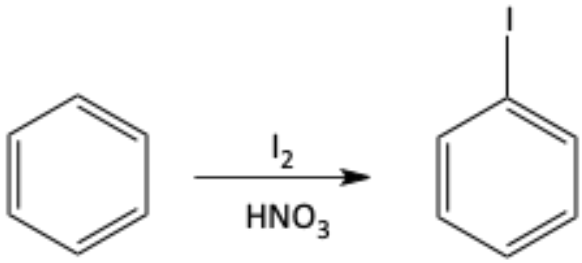
Bromination of benzene



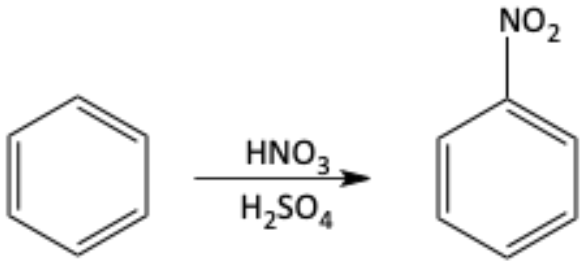
Chlorination of benzene



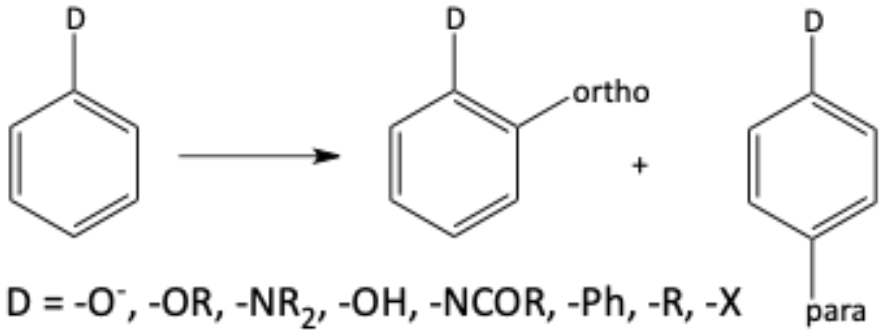
Iodination of benzene



Nitration of benzene

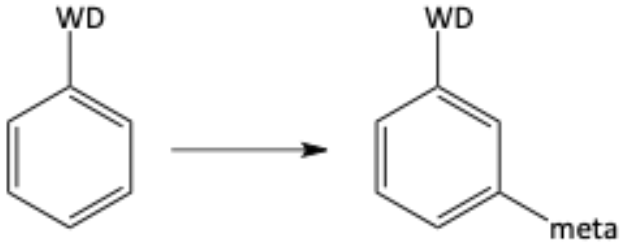


Ortho-para directors



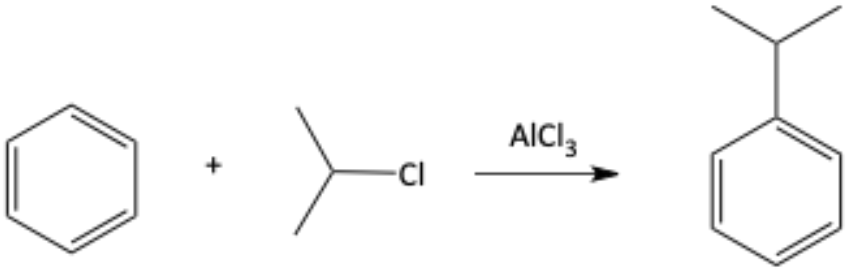
D = $-O^-$, -OR, $-NR_2$, -OH, -NCOR, -Ph, -R, -X

Meta directors

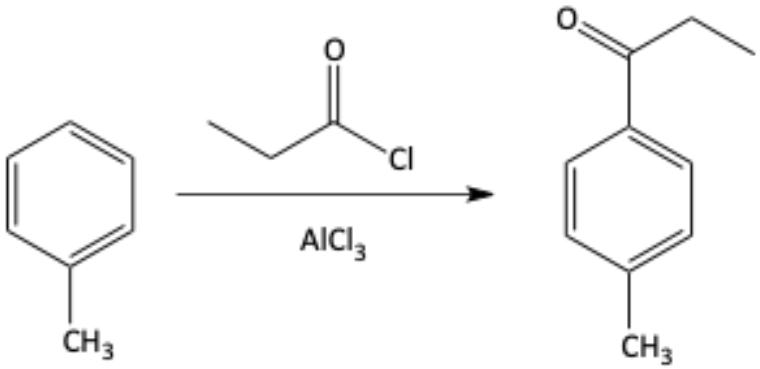


WD = $-NR_3^+$, $-SO_3H$, $-NO_2$, -CN, -Carbonyl

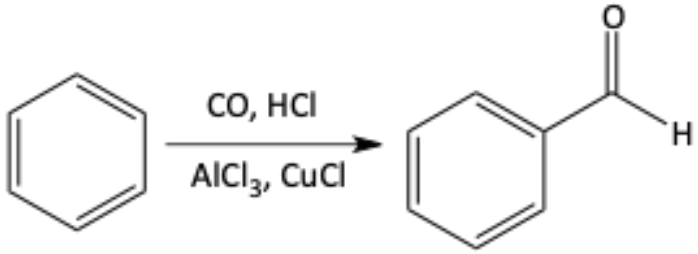
Friedel-Crafts alkylation



Friedel-Crafts Acylation

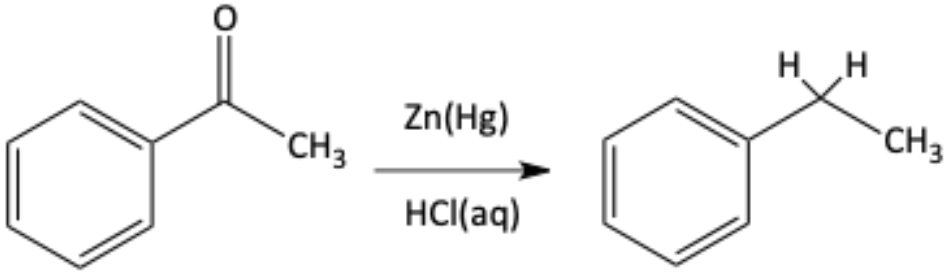


Gatterman-Koch formylation

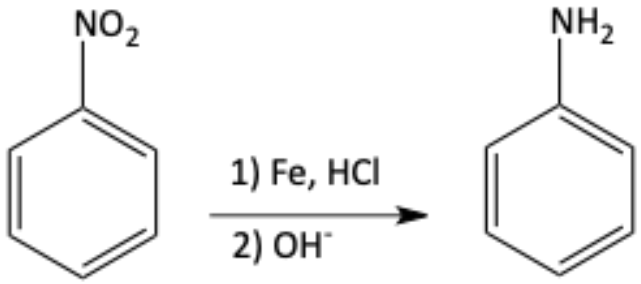


benzaldehyde

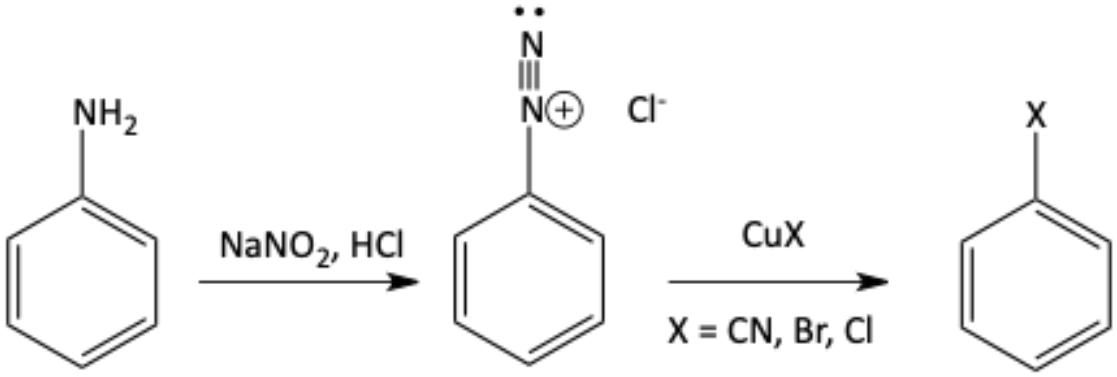
Clemmensen Reduction



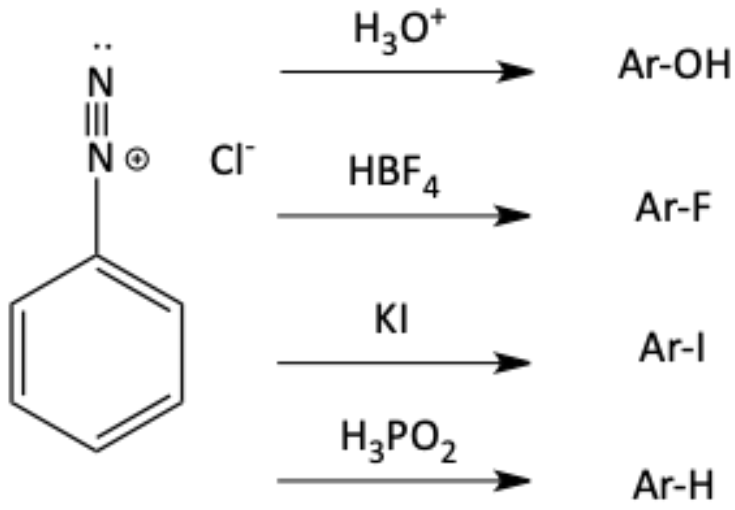
Aniline from nitrobenzene



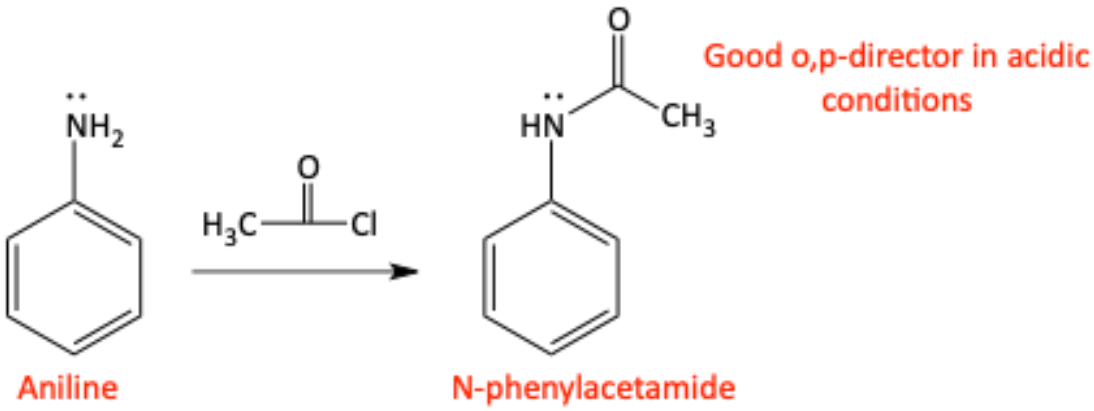
Sandmeyer reaction



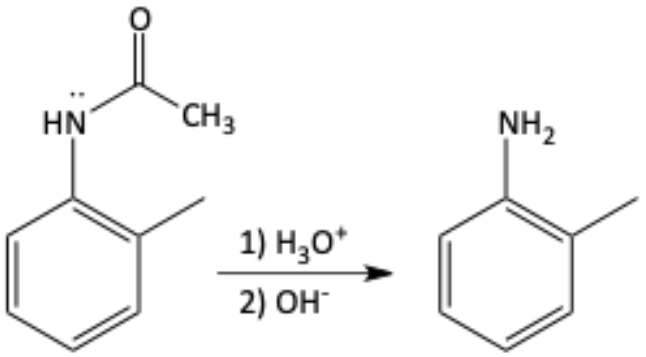
Sandmeyer-like reactions



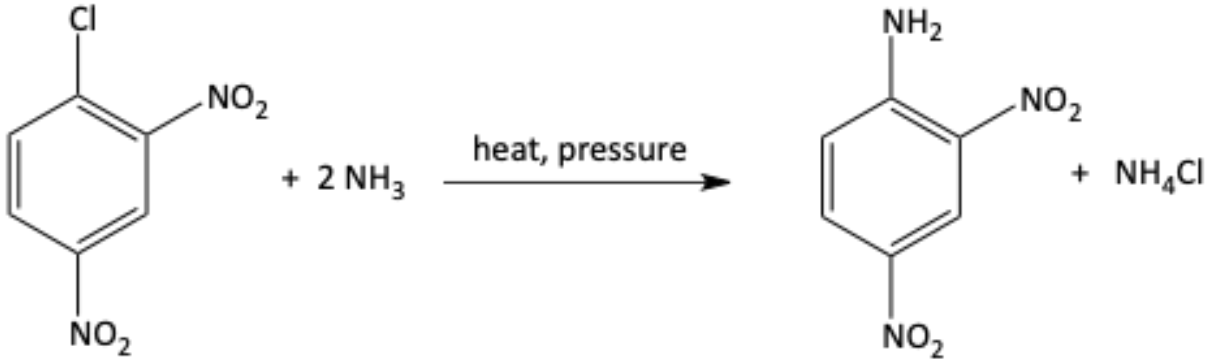
Aniline to amide



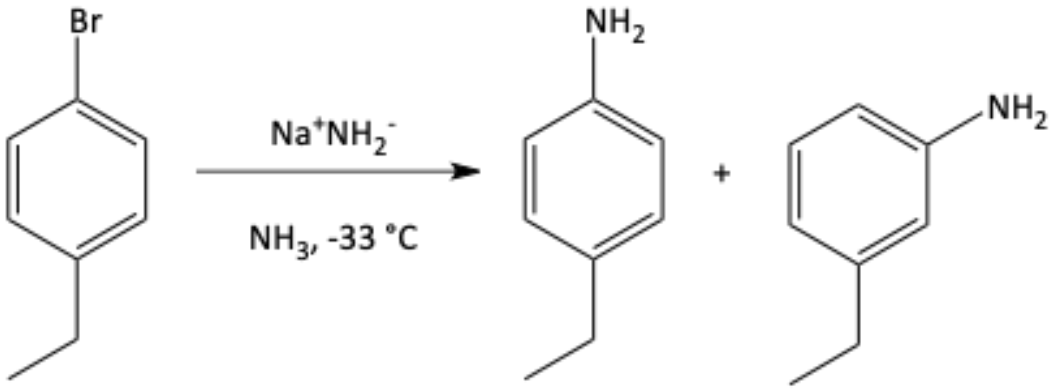
Hydrolysis of amide to amine



Addition-Elimination Nucleophilic Aromatic Substitution



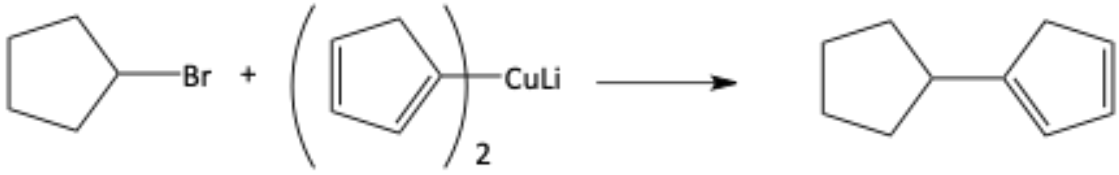
Benzyne Nucleophilic Aromatic Substitution



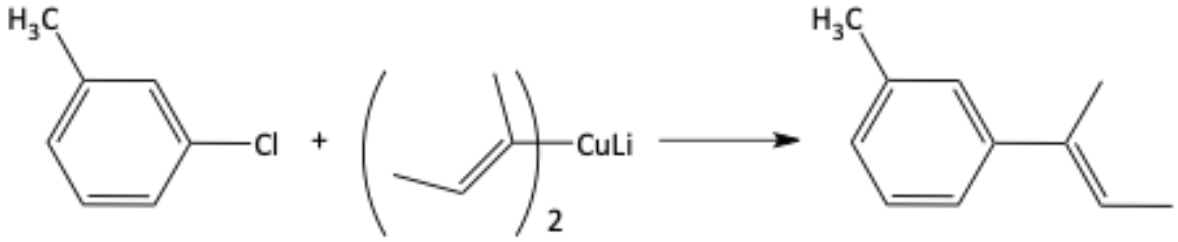
Gilman Reagent Synthesis



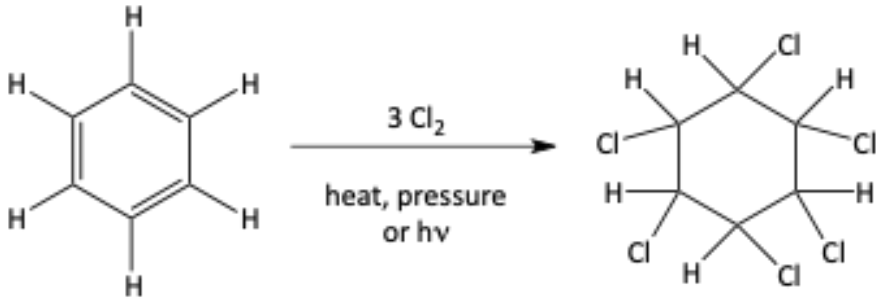
Gilman Reagent reaction with alkyl halide



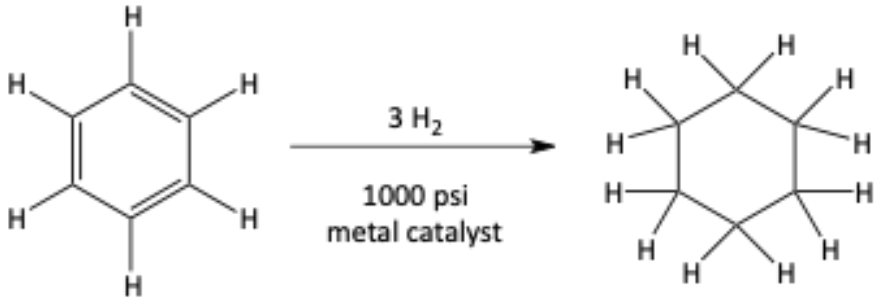
Gilman Reagent reaction with aryl halide



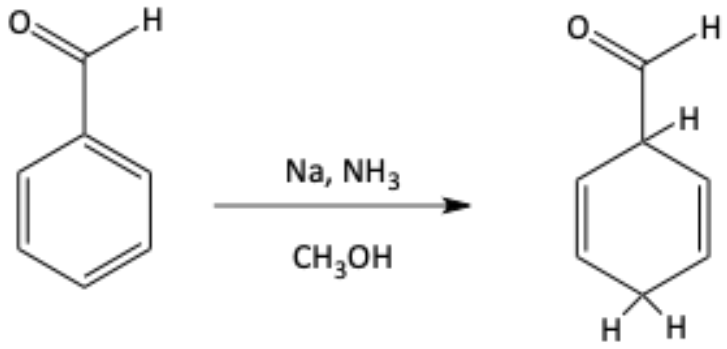
Chlorination of benzene



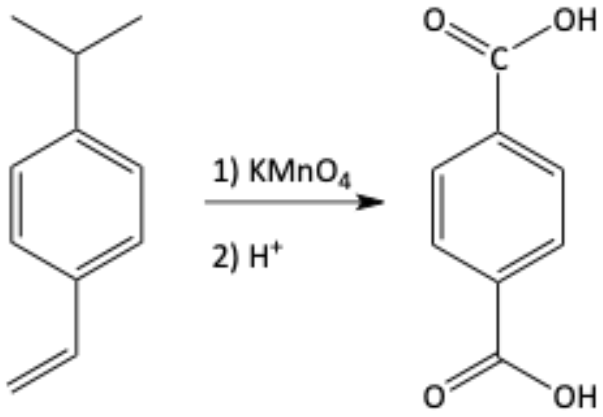
Hydrogenation of benzene



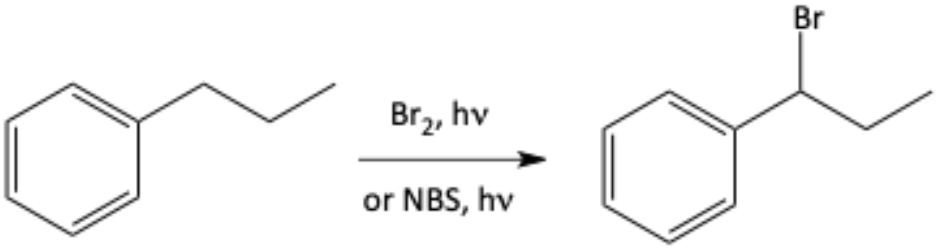
Birch Reduction



Oxidation of alkyl benzene



Side-chain halogenation



Oxidation of phenol

