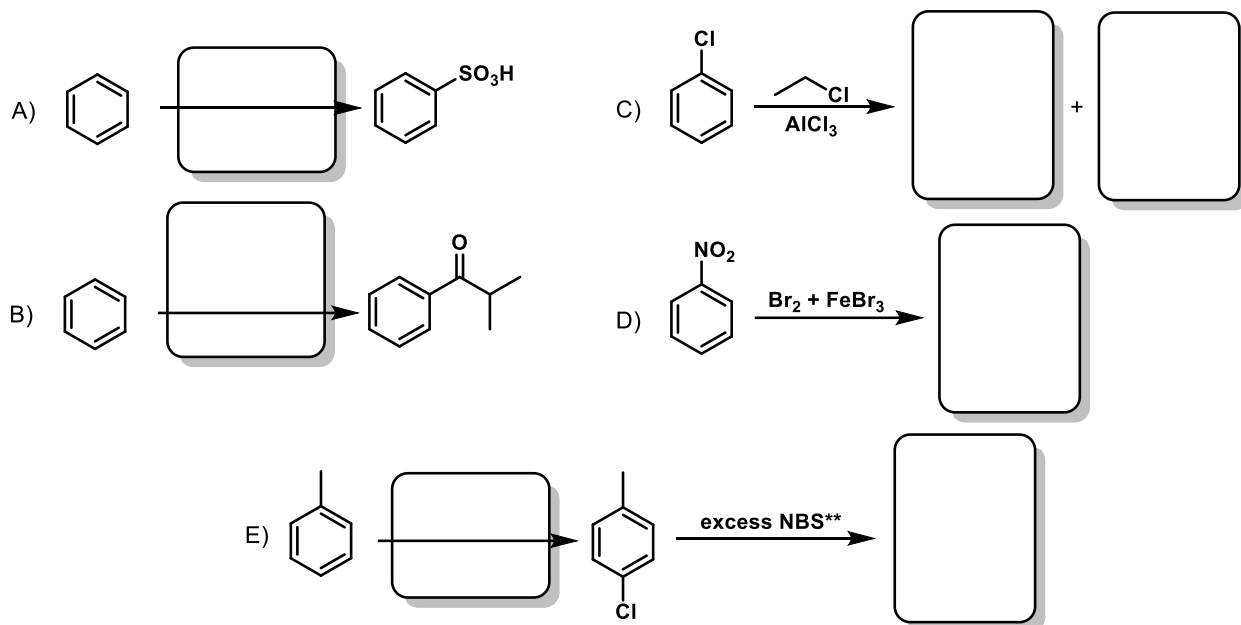
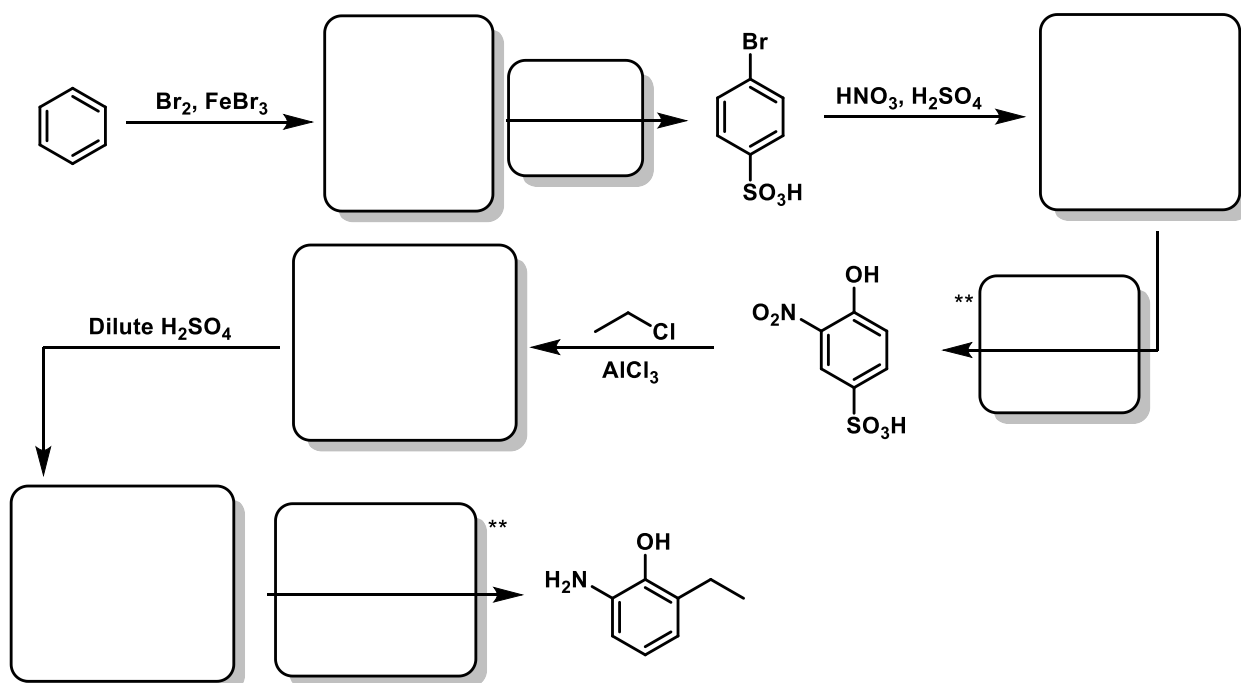


Anything marked with ** has not been covered in lecture quite yet and won't be on Friday's quiz!

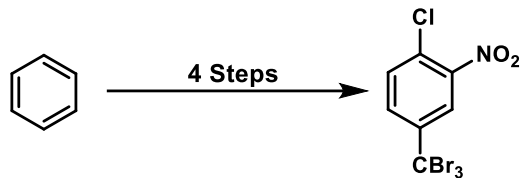
1. In the boxes provided, fill in the correct reagent or product for the following Electrophilic Aromatic Substitution reactions.



2. In the boxes provided, complete the synthesis of the tri-substituted benzene below.



3. Starting from benzene, provide a 4-step synthetic pathway to yield the tri-substituted product below.**



4. Provide a mechanism for the following EAS reaction. Be sure to include all relevant resonance structures and the steps needed to create the strong electrophile.

