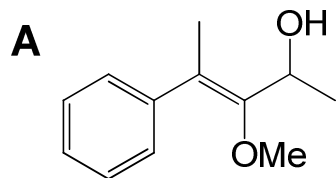
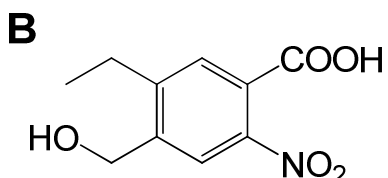


WORKSHEET V_Keys

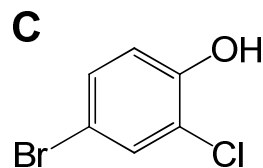
1. Name the following compounds



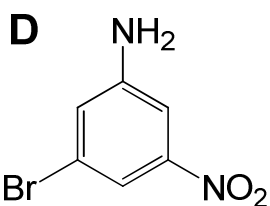
3-methoxy-4-phenylpent-3-en-2-ol



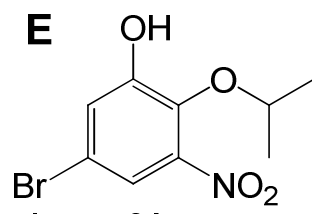
5-ethyl-4-(hydroxymethyl)-2-nitrobenzoic acid



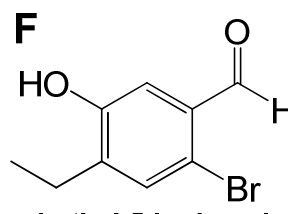
4-bromo-2-chlorophenol



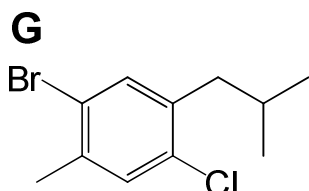
3-bromo-5-nitroaniline



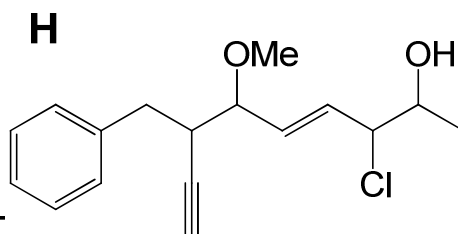
5-bromo-2-isopropoxy-3-nitrophenol



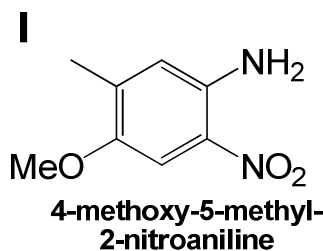
2-bromo-4-ethyl-5-hydroxybenzaldehyde



1-bromo-4-chloro-5-isobutyl-2-methylbenzene

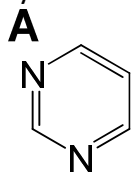


7-benzyl-3-chloro-6-methoxy non-4-en-8-yn-2-ol

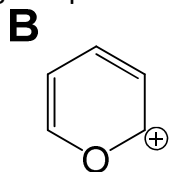


4-methoxy-5-methyl-2-nitroaniline

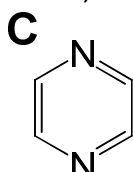
2. Classify the following compounds as aromatic, antiaromatic or nonaromatic



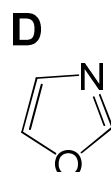
Aromatic



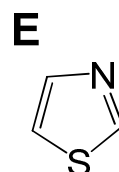
Aromatic



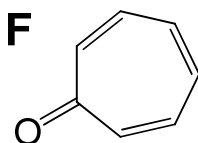
Aromatic



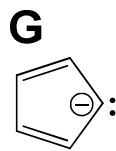
Aromatic



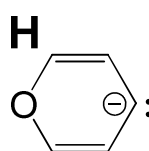
Aromatic



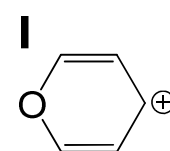
Aromatic



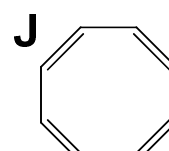
Aromatic



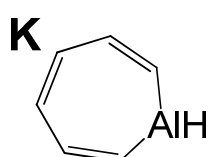
Antiaromatic



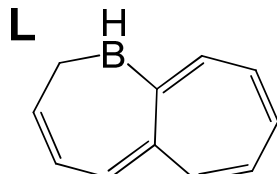
Aromatic



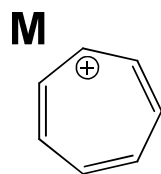
Antiaromatic



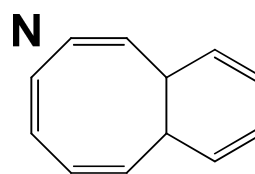
Aromatic



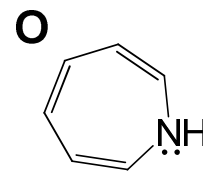
Non-aromatic



Aromatic



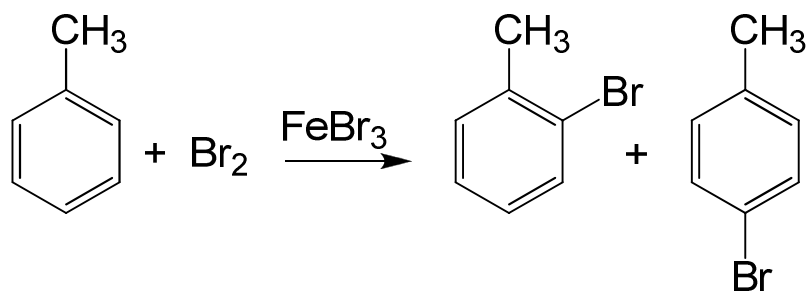
Non-aromatic



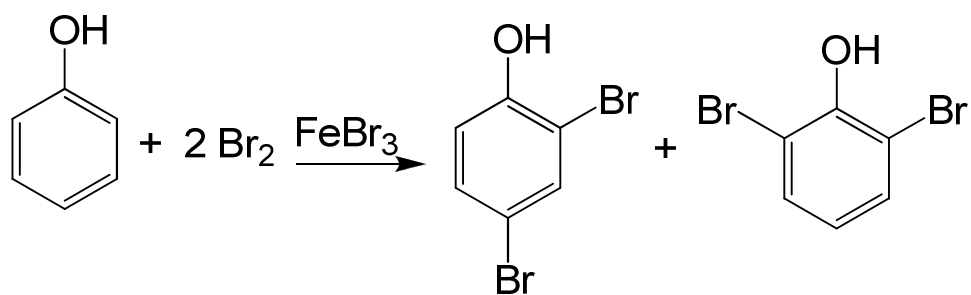
Antiaromatic

3. Give the major product(s) of each of the following reaction

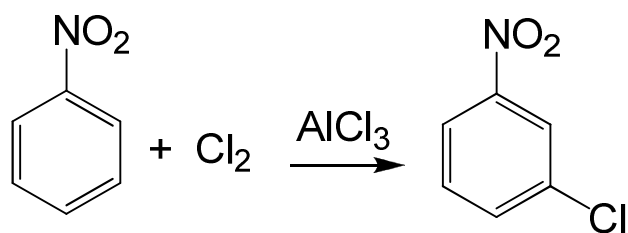
A



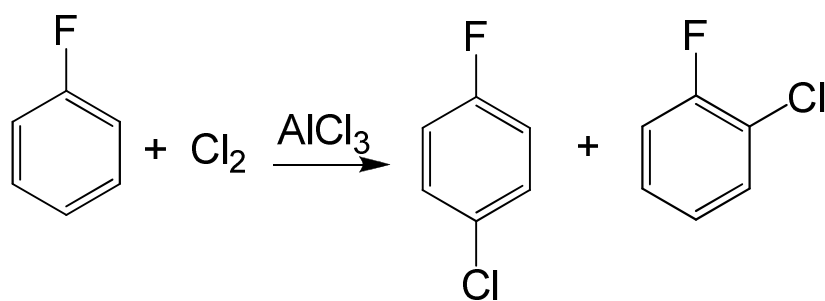
B



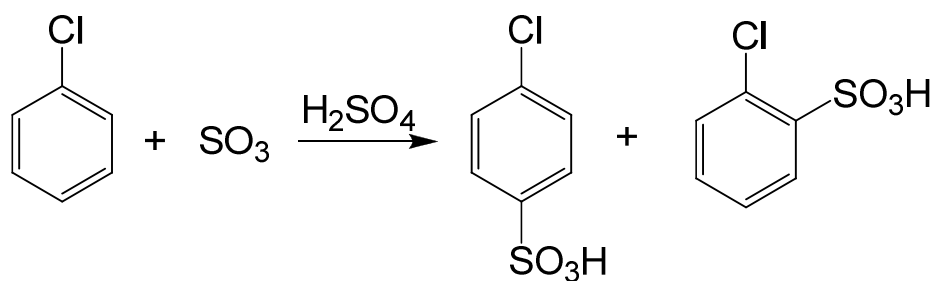
C

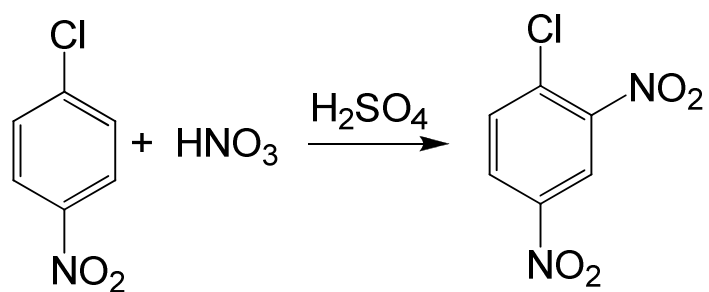
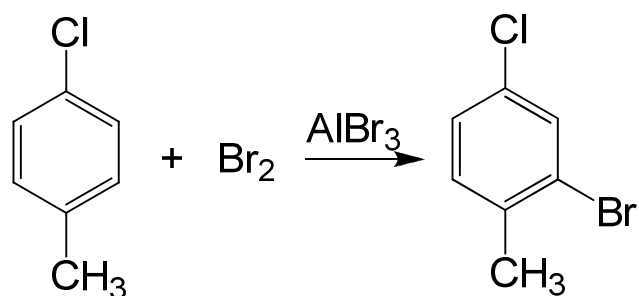
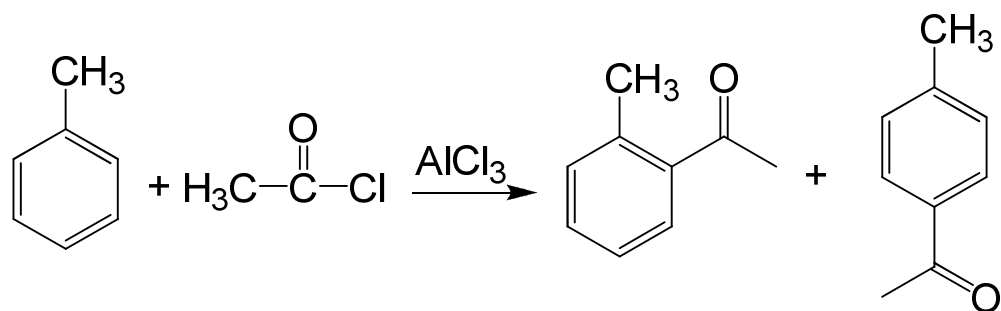
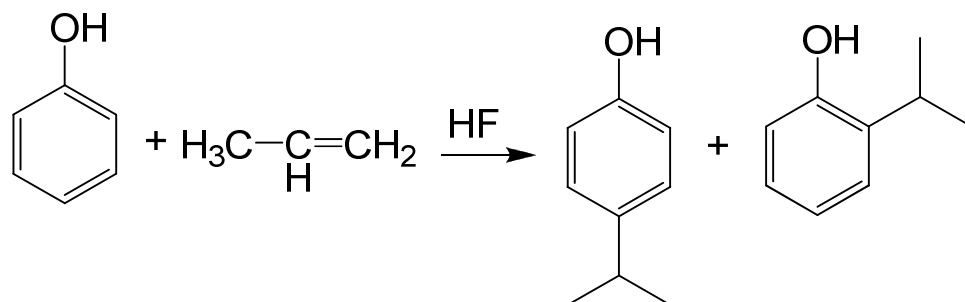
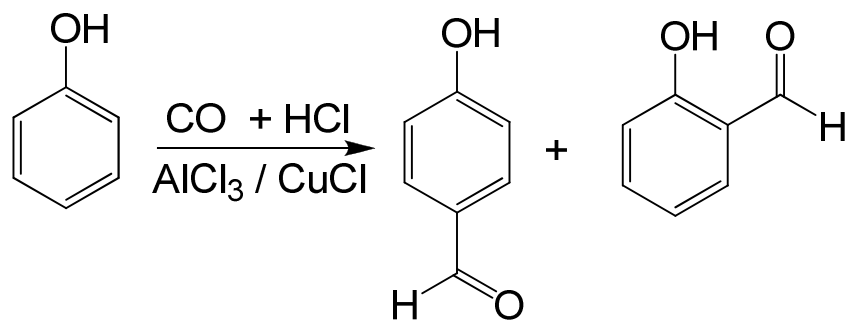


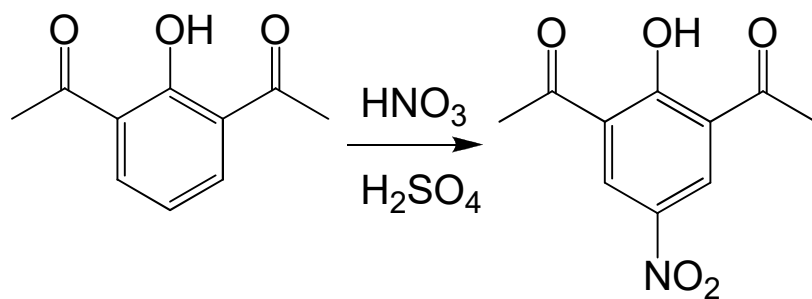
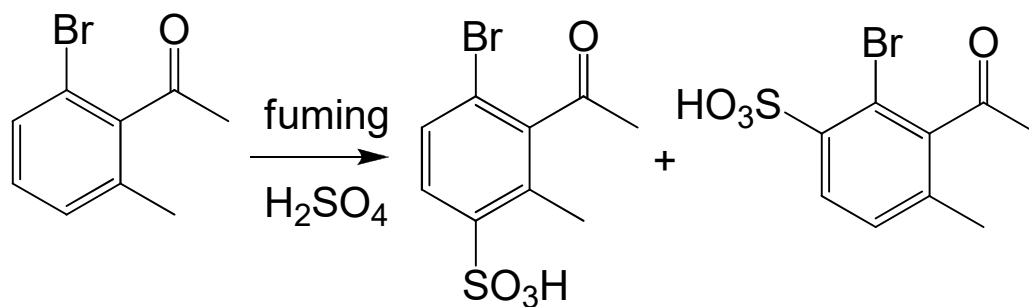
D



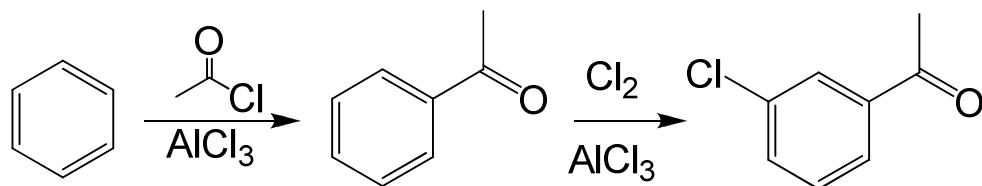
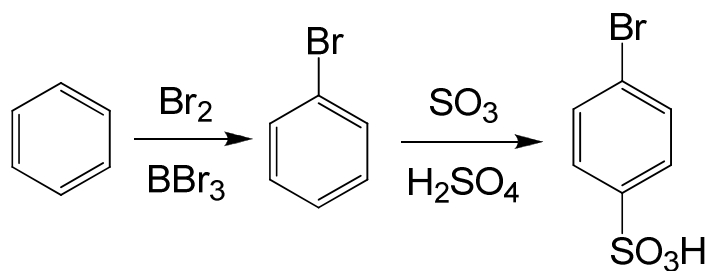
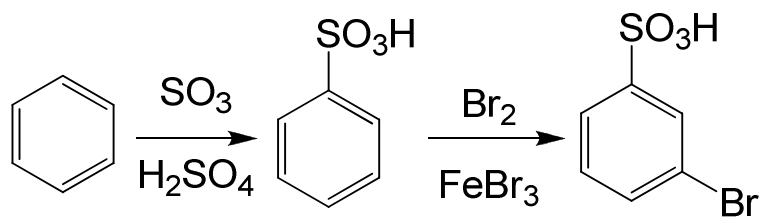
E

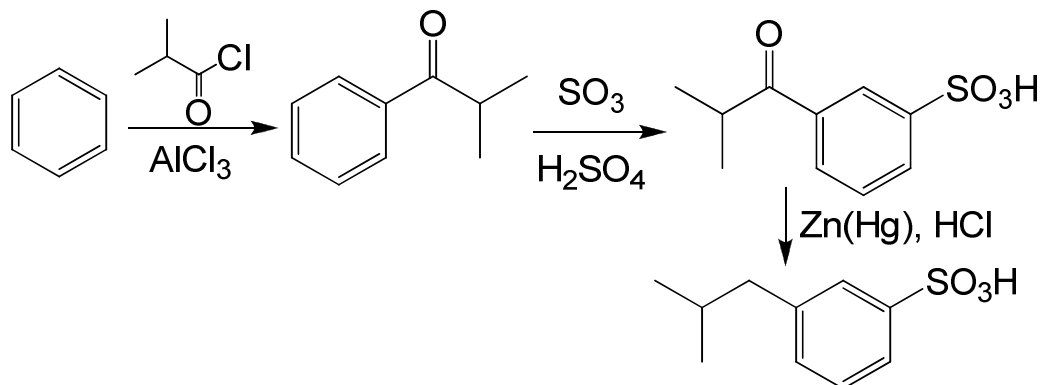
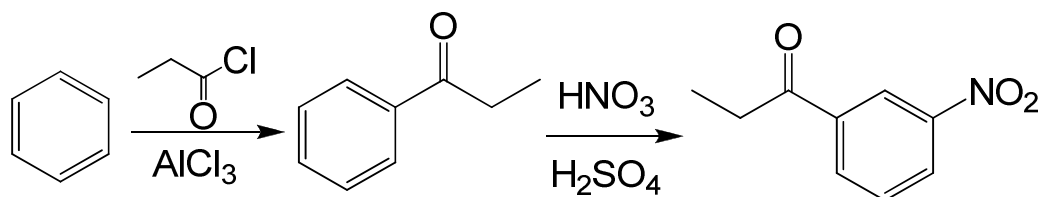
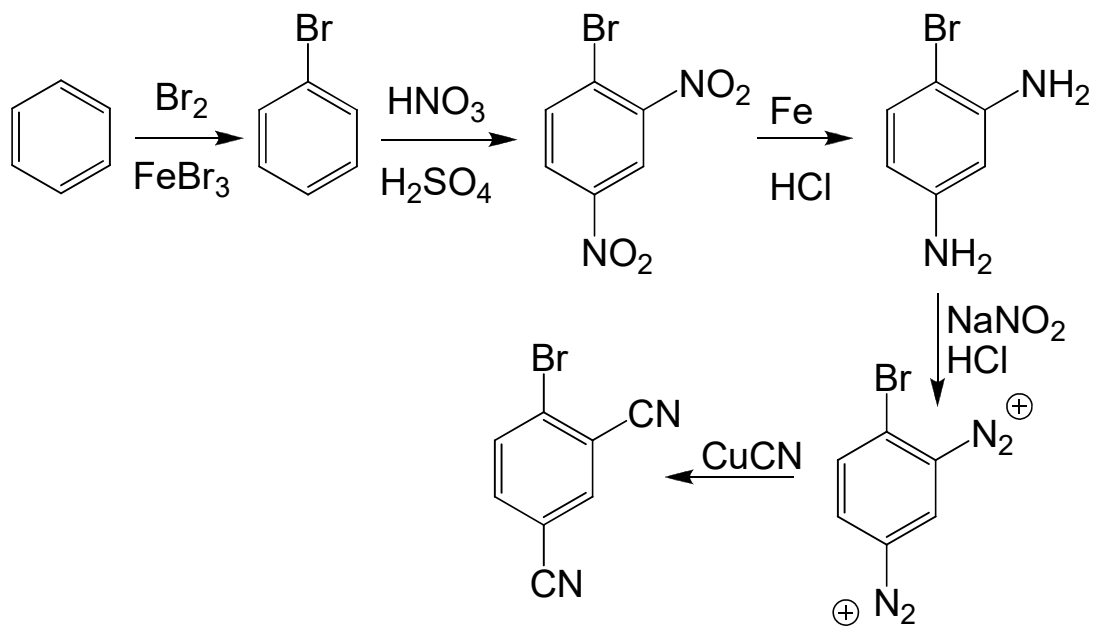
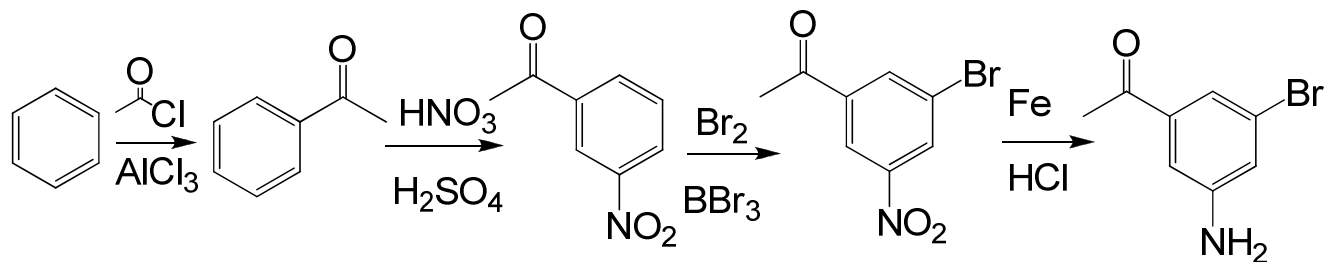


F**G****H****I****J**

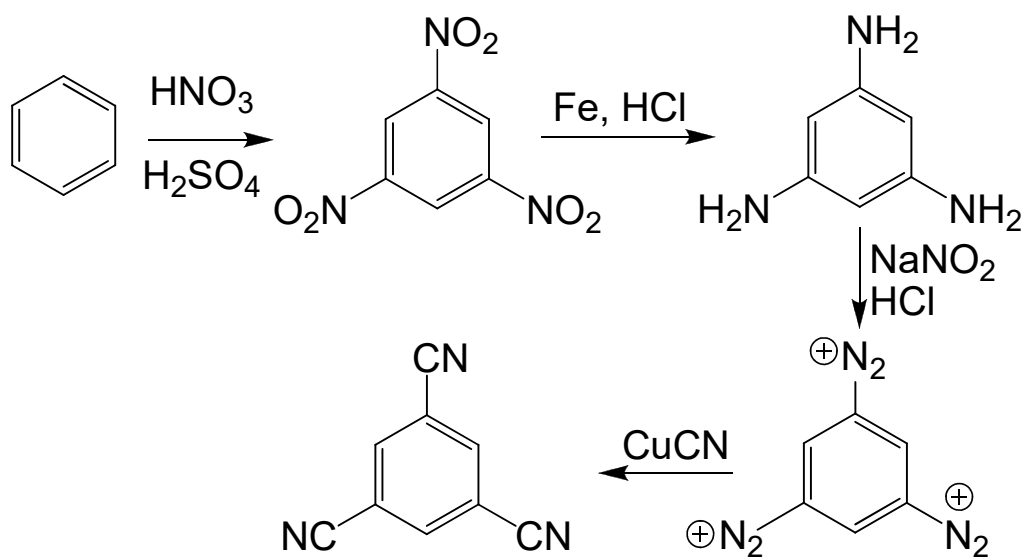
K**L**

4. Show how you would synthesize these compounds from benzene (you should list all the reactants and the proper reaction conditions)

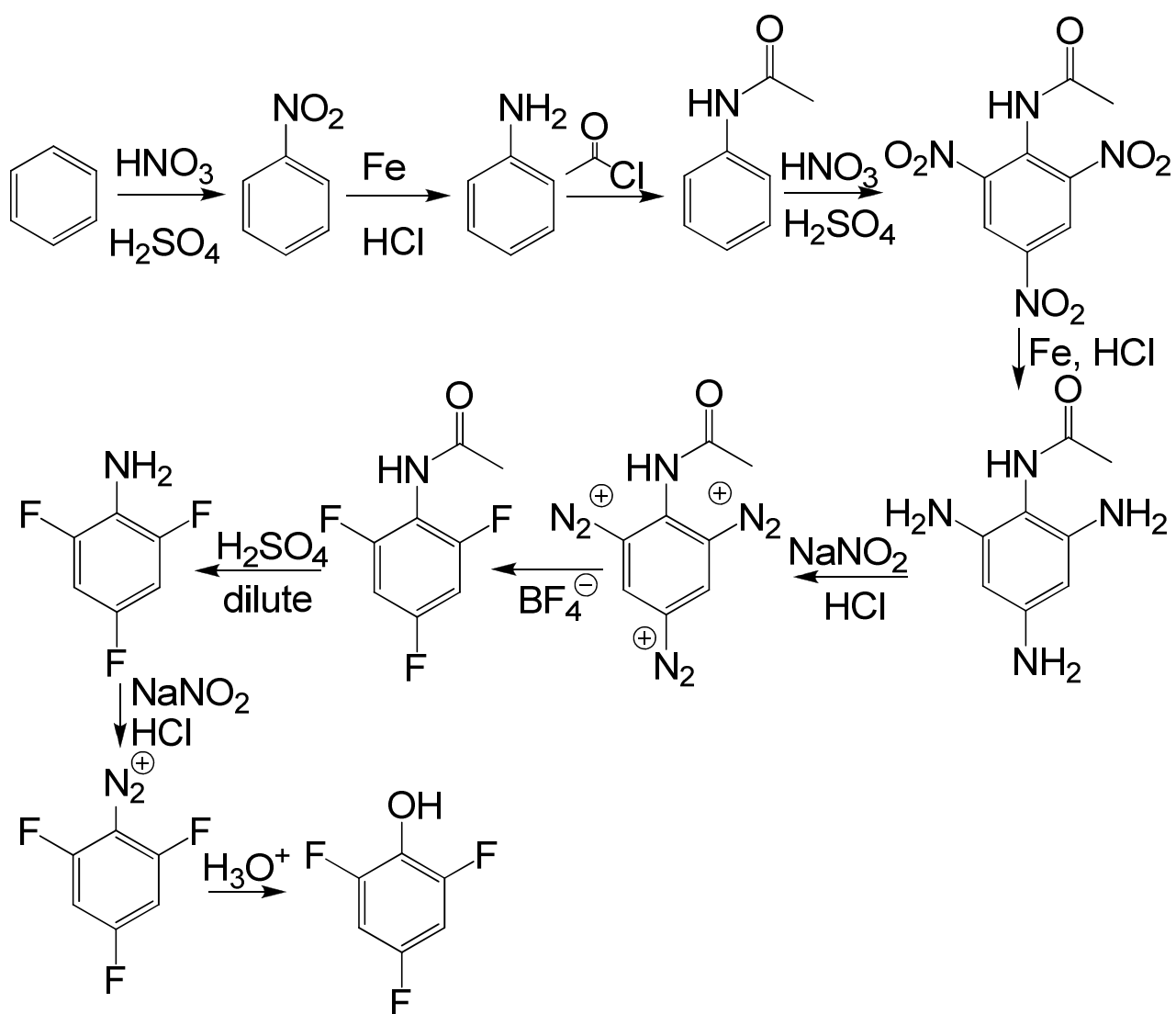
A**B****C**

D**E****F****G**

H

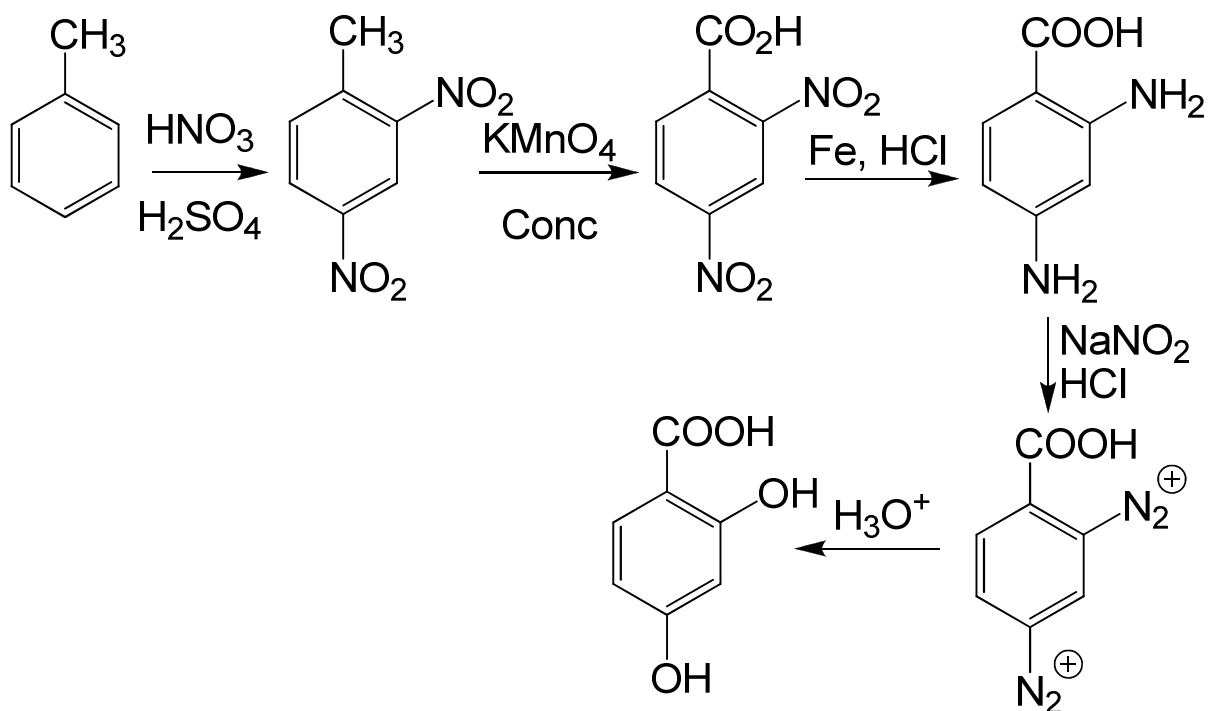


I



5. Suggest a good synthetic method for preparing each of the following compounds from the given starting material (s)

A



B

