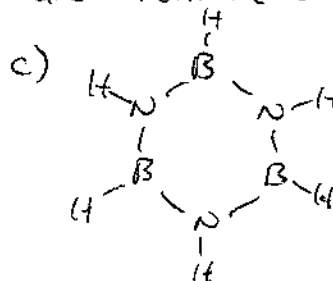
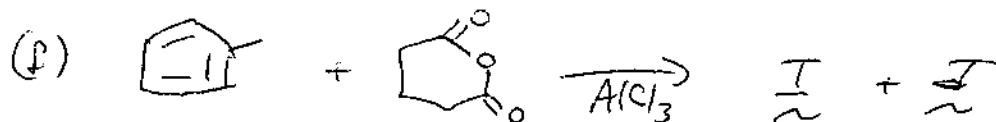
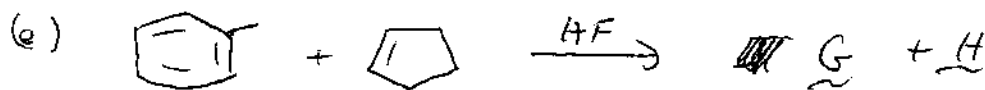
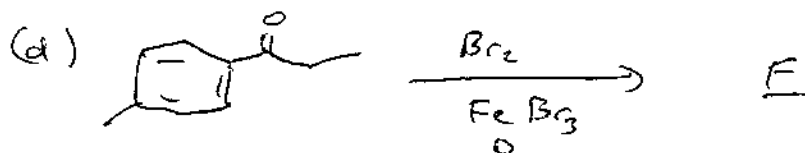
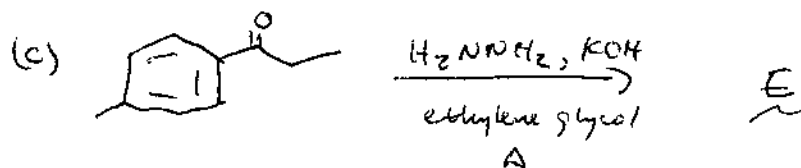
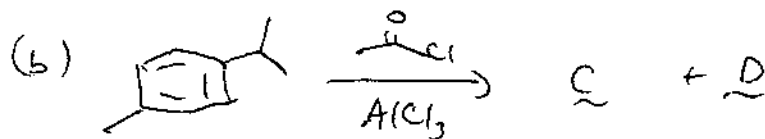
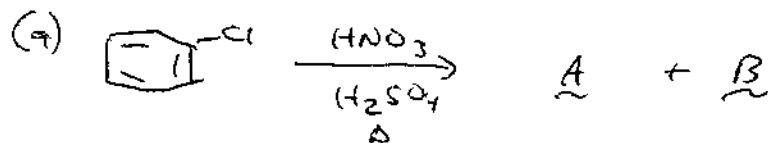


Homework #3 Ch 16 & 17

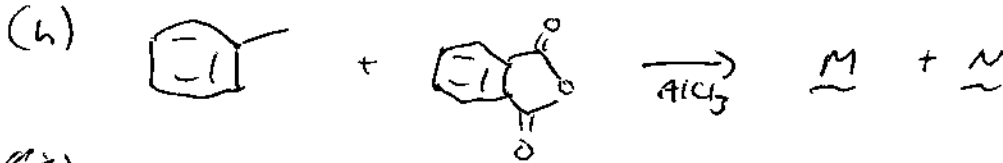
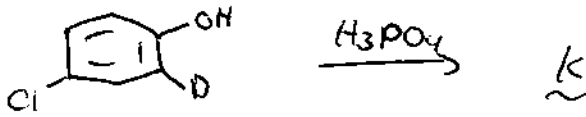
1) Predict whether the following molecules are aromatic or not,



2) Predict the products:

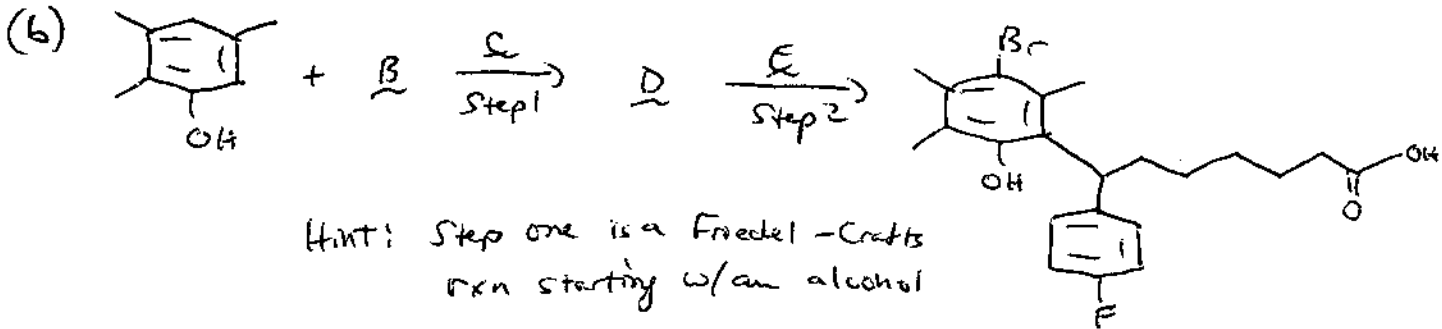
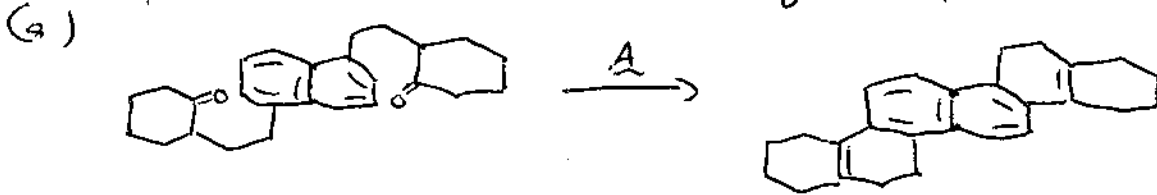


2) cont'd
(g)



(i)

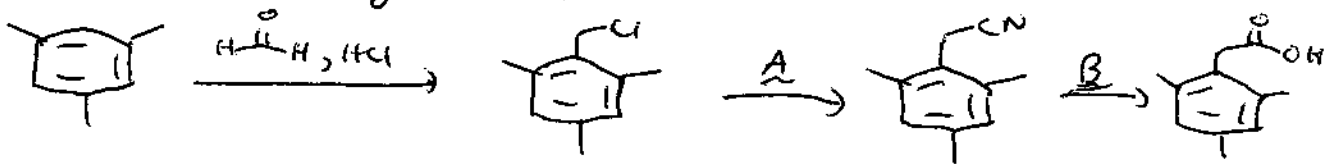
3) What reagents are needed for the following rxns!



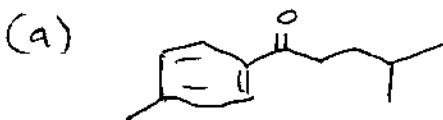
Hint: Step one is a Friedel-Crafts rxn starting w/ an alcohol

Give $\underline{B-E}$

4) Complete the following road map. Propose a mechanism for the 1st step.



5) Propose syntheses for the following molecules; you may start w/ Benzene & toluene & any reagents w/ 4 carbons or less.



(6) Explain the following problem. Suggest which amino Nitrogen will be protonated in the following molecule (imidazole):

