

Last Name:

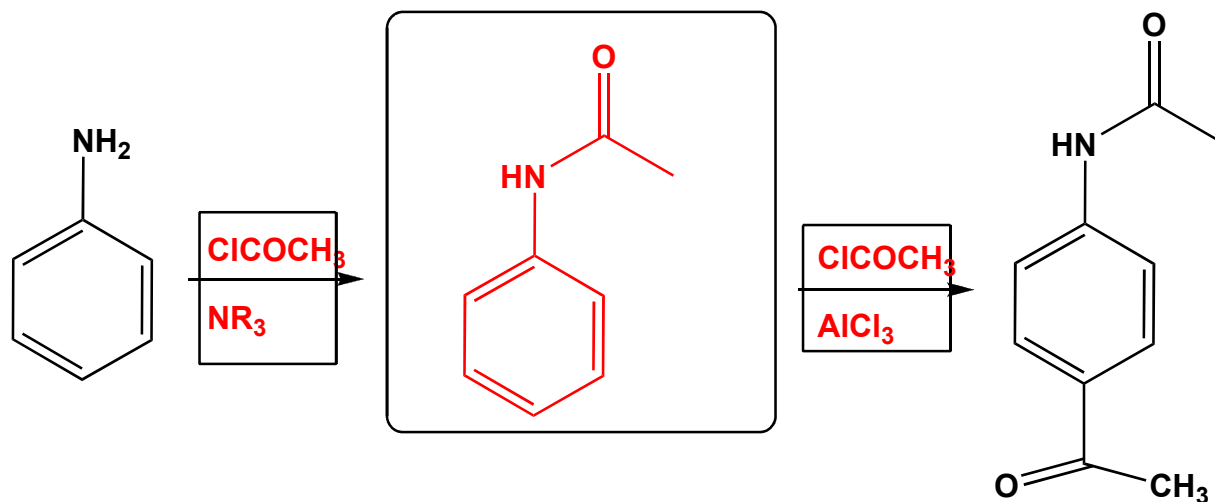
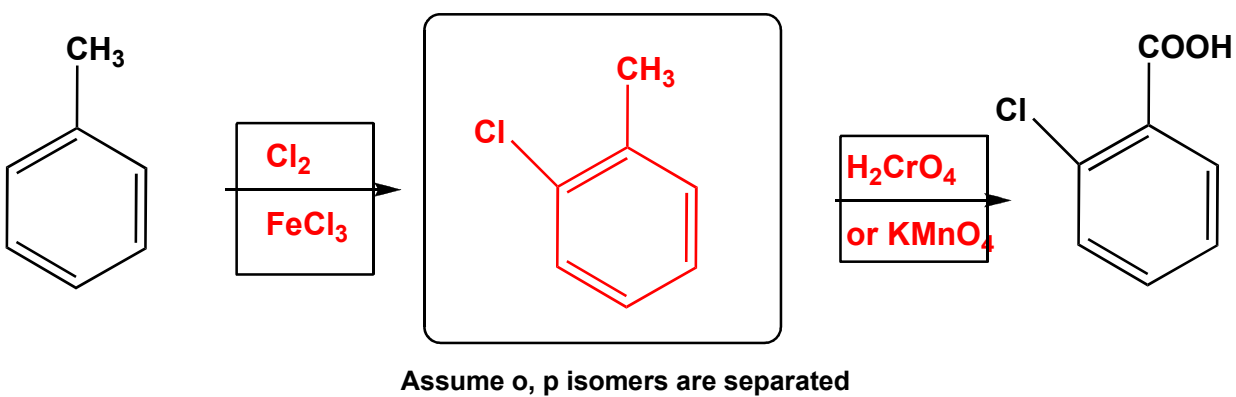
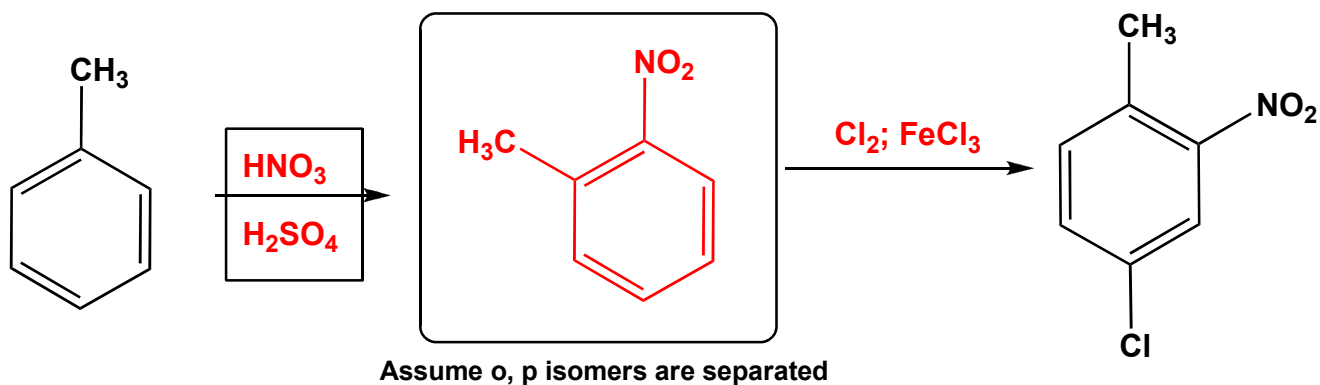
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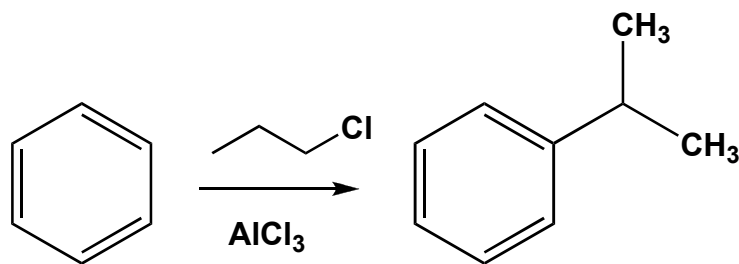
SCORE: **KEY**

Deadline for CH310N HW 6, Due: Oct 31 3:00 PM

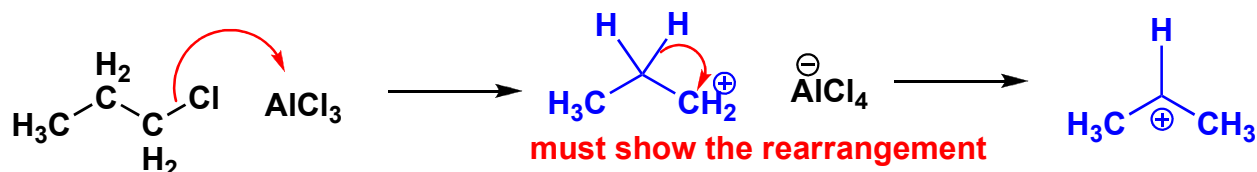
Reactions: Each of the following compounds can be synthesized by two-step reactions. Indicate the reagents required for the reactions, the intermediate compound. Your pathway must address any regiochemistry in the products.



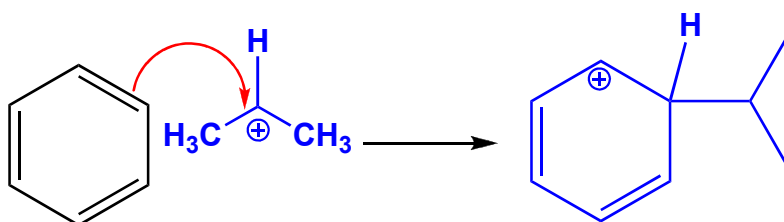
Mechanism: Provide the stepwise mechanism for the following Friedel-Crafts alkylation. Show all important flows of electrons, charges and intermediates. Follow the instructions for each of the stages.



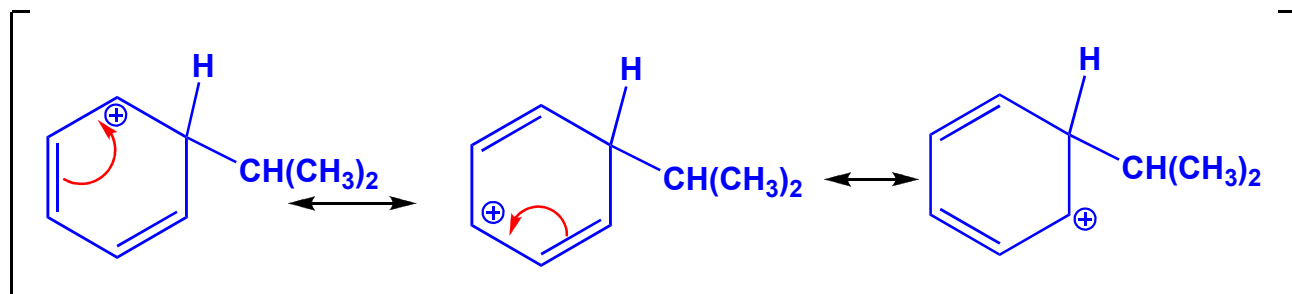
Show the generation of the electrophile:



Show the carbon-carbon bond formation (the rate determining step):



Draw the family of resonance structures:



Show the last step-the loss of the proton:

