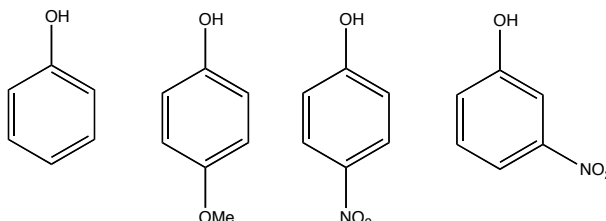


Quiz 2

1. Predict the trend in acidity for the following substituted phenols. Rank by increasing acidity and explain.



A

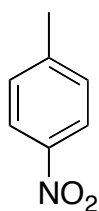
B

C

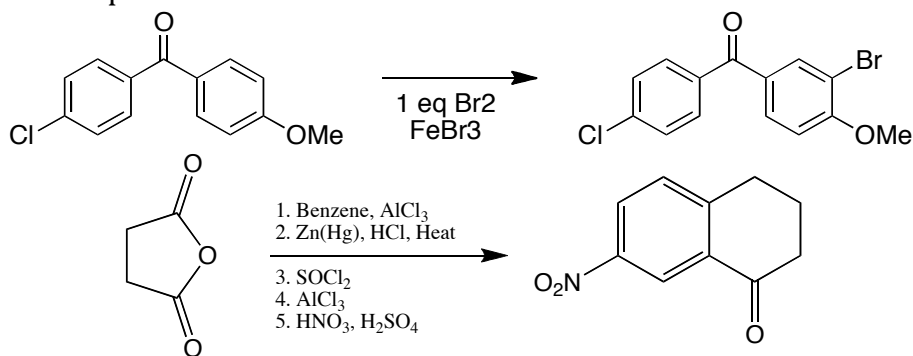
D

Answer: B, A, D, C

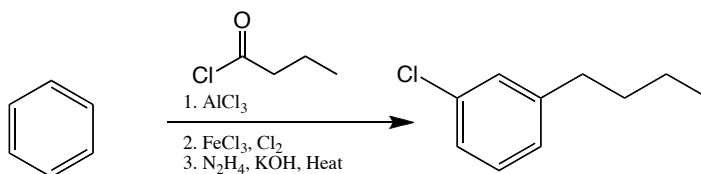
2. Name the following using IUPAC nomenclature:

Answer: para-nitrotoluene; *p*-nitrotoluene; 4-nitrotoluene

3. Provide the compound for each transformation:

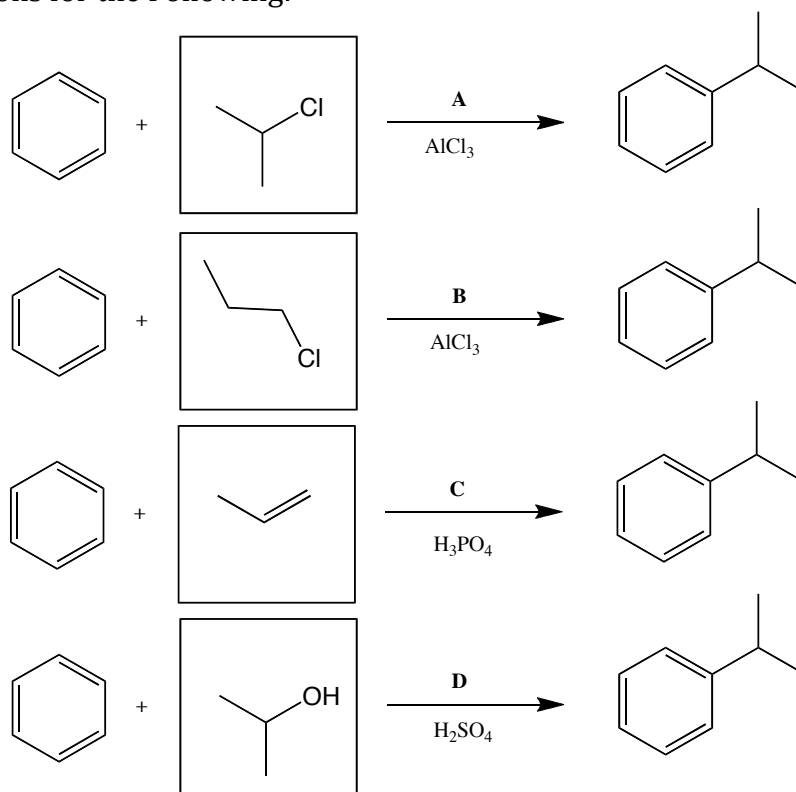


4. Devise a reasonable synthesis for the following compounds from reagents you are familiar with and the starting material provided.



note: Clemmensen Reduction also works to remove benzylic ketone

5. Provide Conditions for the Following:



6. Propose a detailed mechanism to explain the following reactions:

