

Chem 332
Exam 3
2009
Prof. Fox
50 minutes
80 points

Show your work in detail

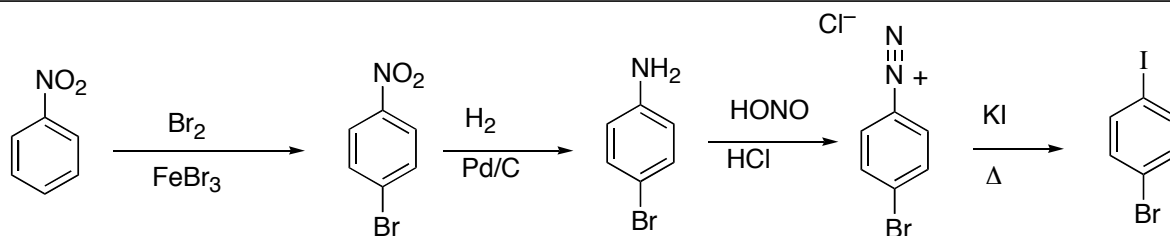
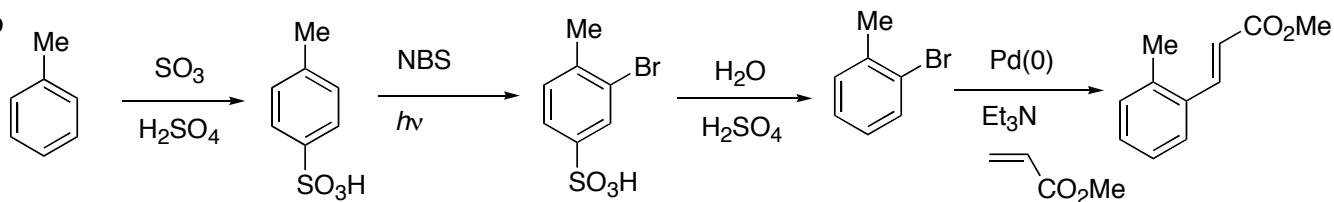
WRITE YOUR NAME ON EVERY PAGE

NAME _____

(8 points each)

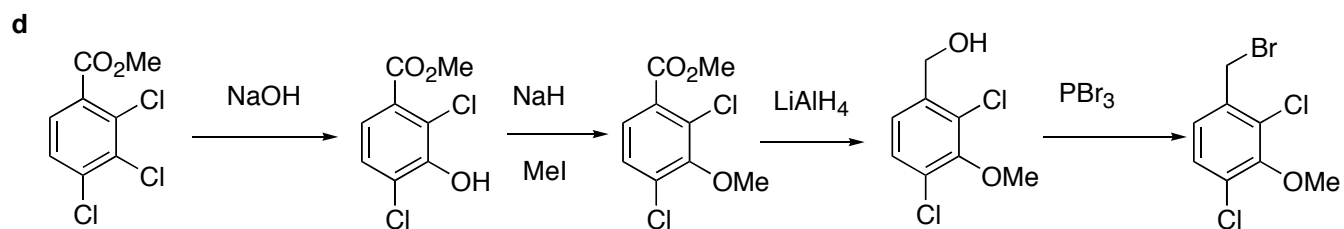
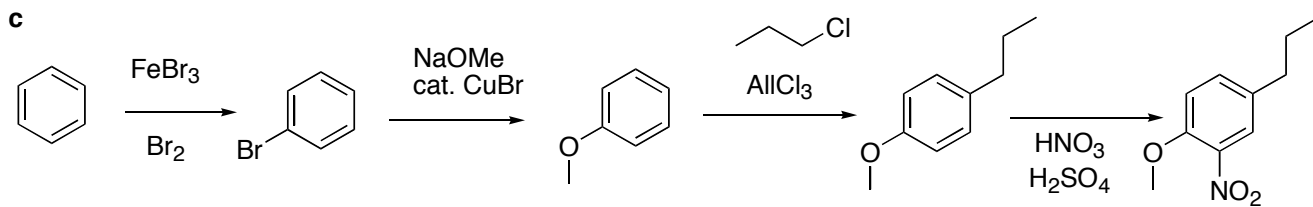
2. There is a problem with each of the following syntheses.

CIRCLE the problematic step, and describe the problem in the space below in 30 words or less

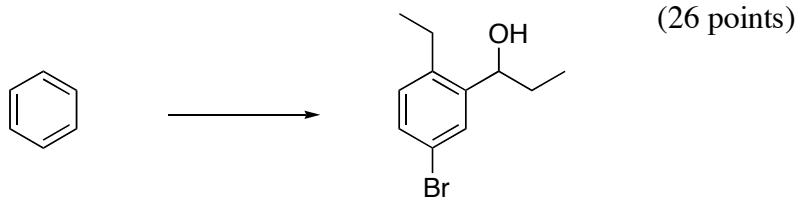
a**b**

2. There is a problem with each of the following syntheses.

CIRCLE the problematic step, and describe the problem in the space below in 30 words or less



3. Suggest a multistep synthesis, using **benzene** and any other materials that contain **5 carbons or less**. Reagents that do not end up in the product (e.g. PPh_3) may contain more than 5 carbons.



4. Provide a detailed arrow pushing mechanism. (22 points)

