

Chem 332
Exam 3
May 14, 2008
Prof Fox
50 minutes
100 points

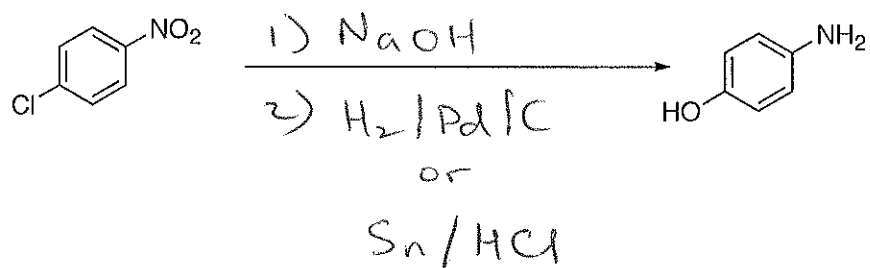
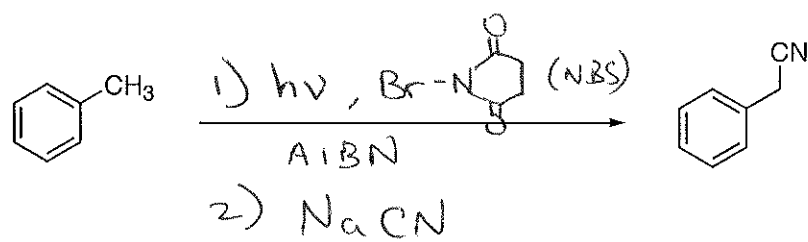
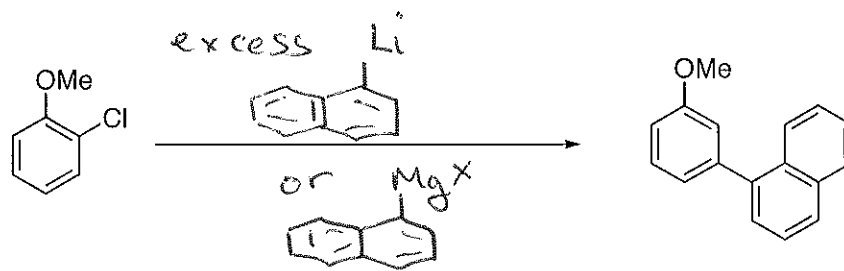
Show your work in detail

Write your name on every page

Name_____

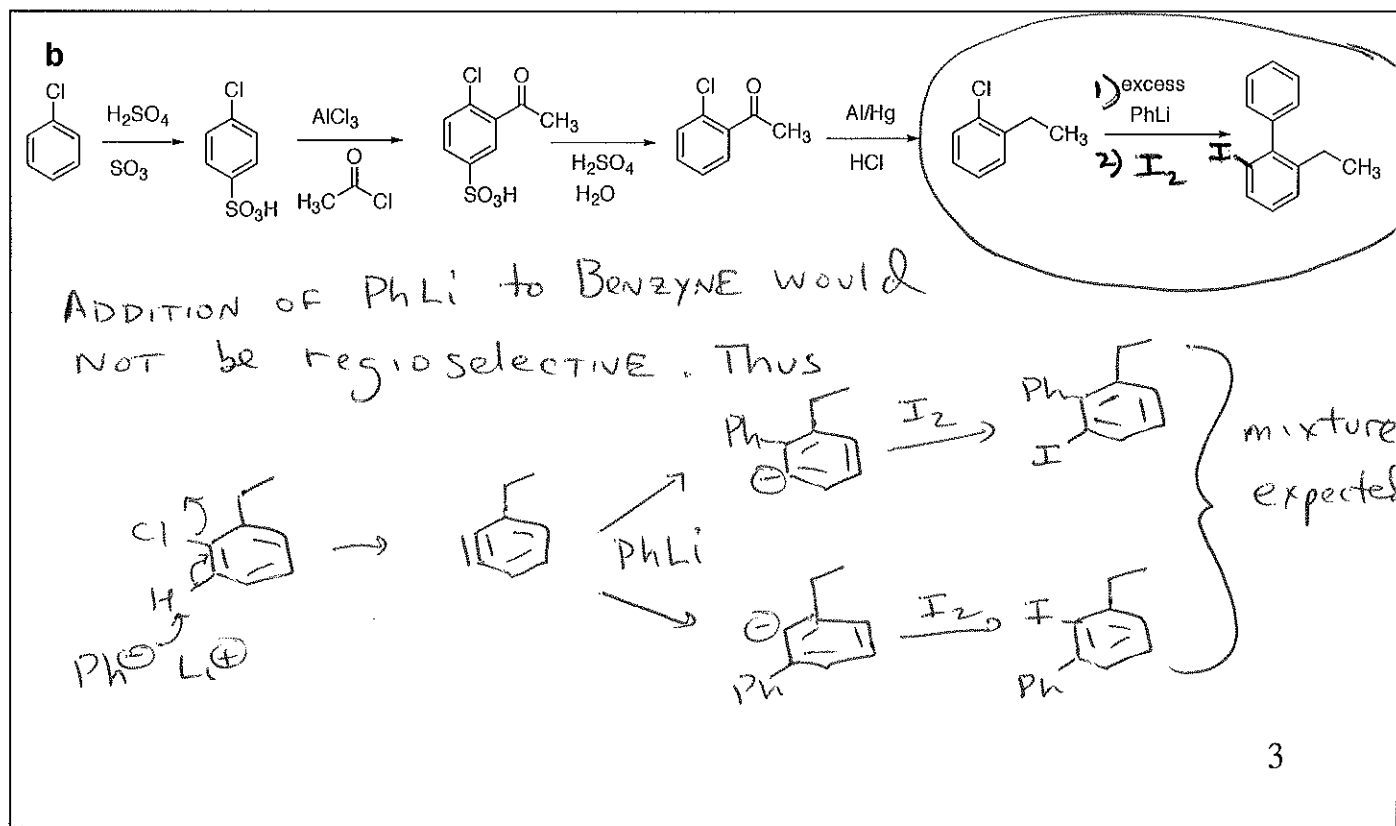
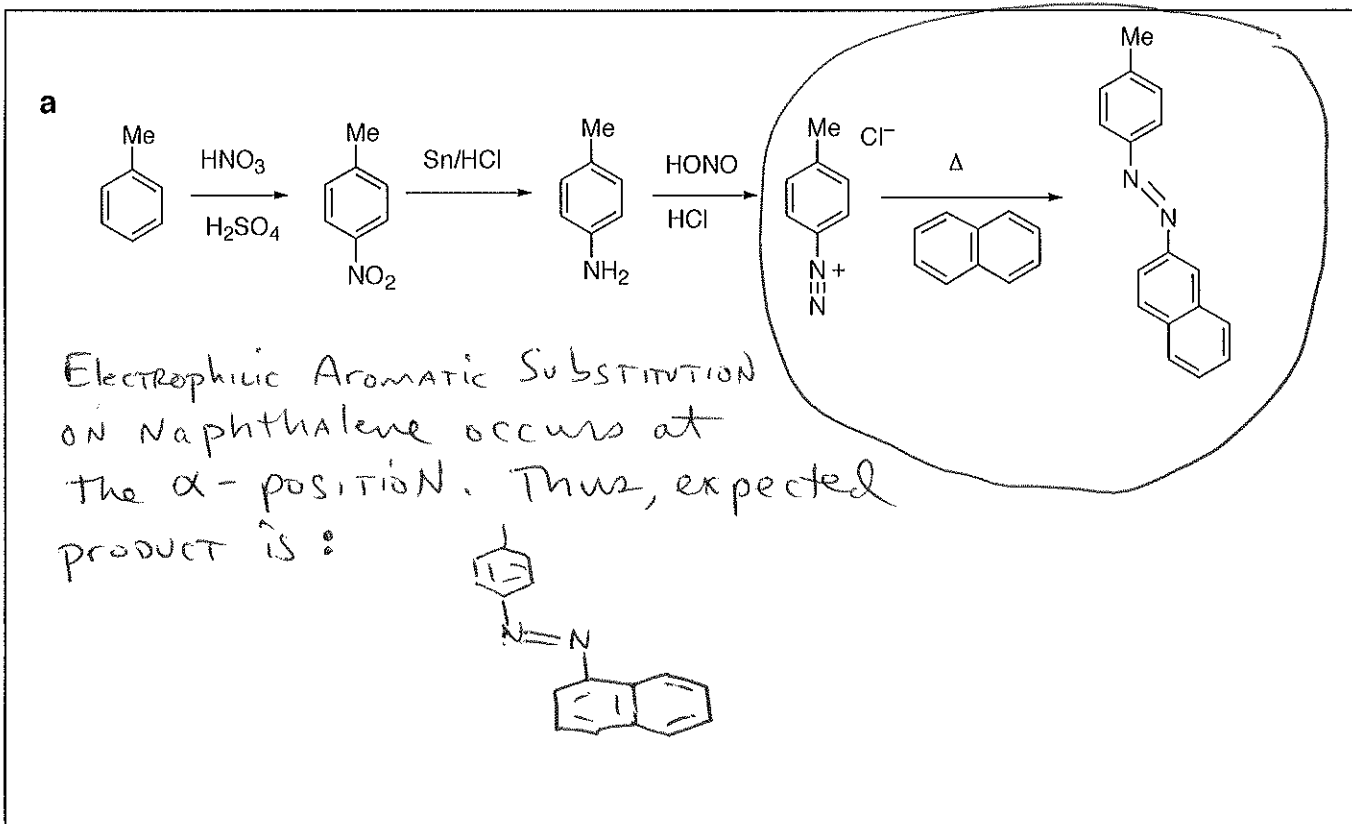
Your Name key

1. Provide the reagents needed for the following transformations. Mechanisms are not needed.
(5 points each)



Your Name key

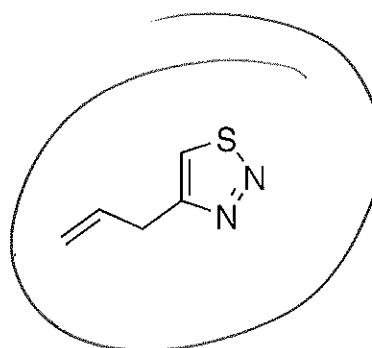
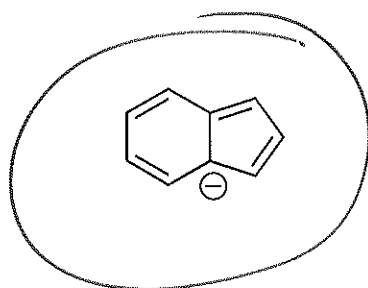
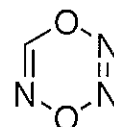
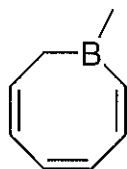
2. There is a problem with each of the following syntheses. 10 points each
CIRCLE the problematic step, and describe the problem in the space below



Your Name key

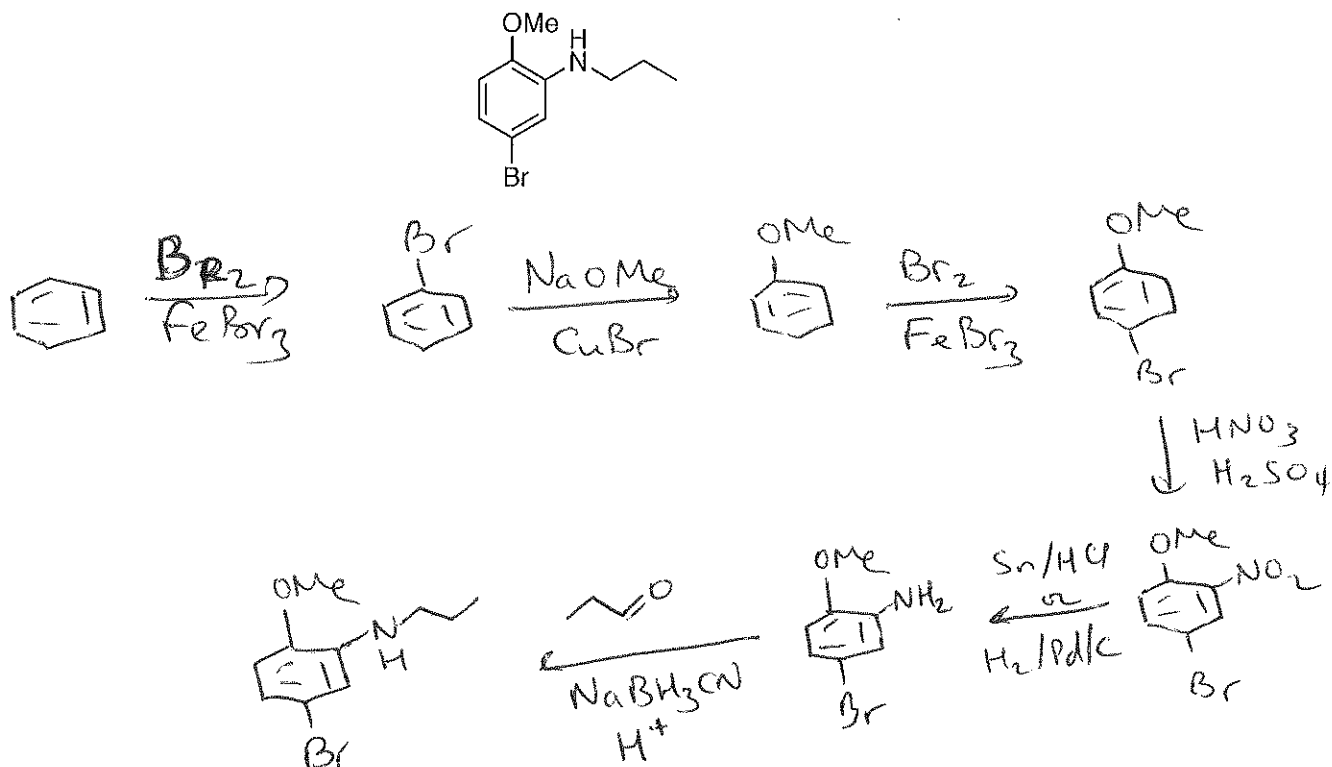
3. Circle the Aromatic Molecules
~~Find the problem.~~

3
~~10~~ points each)



Your Name key

4. 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. (25 points)



Your Name Neeraj

5. Provide a detailed arrow pushing mechanism.
(25 points)

