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

Show your work in detail

100 points

Write your name on every page

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

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

## 3. Circle the molecules that are aromatic.

(3 points each)





4. Suggest a multstep synthesis, using **benzene** and any other materials that contain **5 carbons or less**. Reagents that do not end up in the product (e.g. PPh3) may contain more than 5 carbons. (25 points)

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

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Your Name\_\_\_\_\_

Scratch paper