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______________________________________________
1. 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

(a)

(b)
3. Circle the molecules that are aromatic. (3 points each)
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. PPh₃) may contain more than 5 carbons. (25 points)
5. Provide a detailed arrow pushing mechanism.
(25 points)
Scratch paper