

Chem 332  
Exam 3  
May 4, 2007  
Prof. Fox  
50 minutes  
100 points

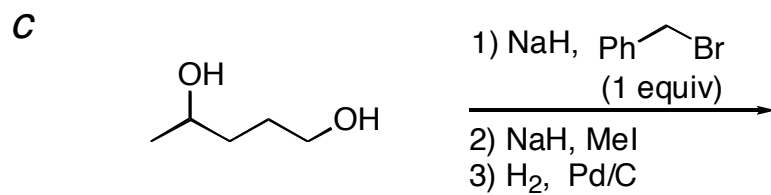
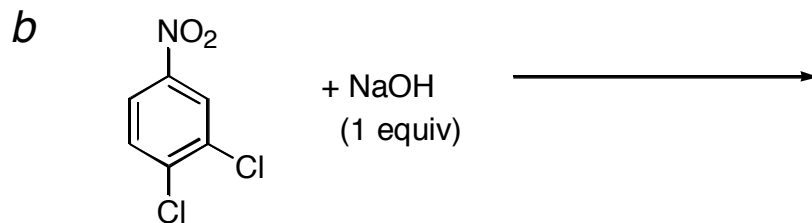
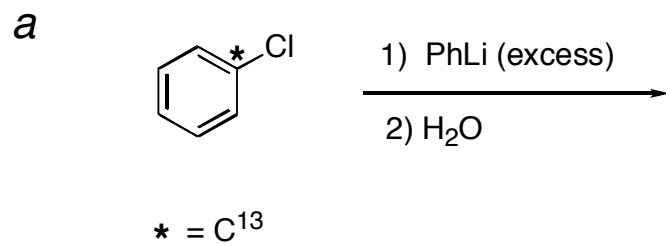
Show your work in detail

WRITE YOUR NAME ON EVERY PAGE

NAME \_\_\_\_\_

1. Provide the product or products for each of the following transformations

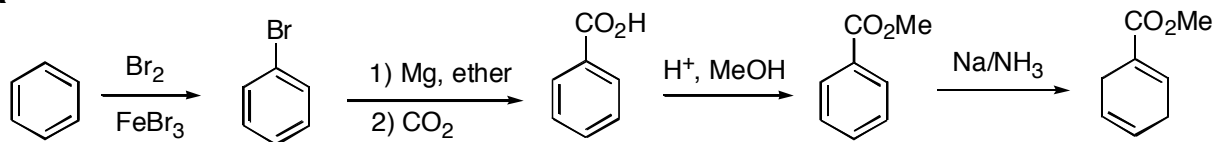
5 points each



2. There is a problem with each following syntheses. CIRCLE the problematic step, and Describe the problem in the space below.

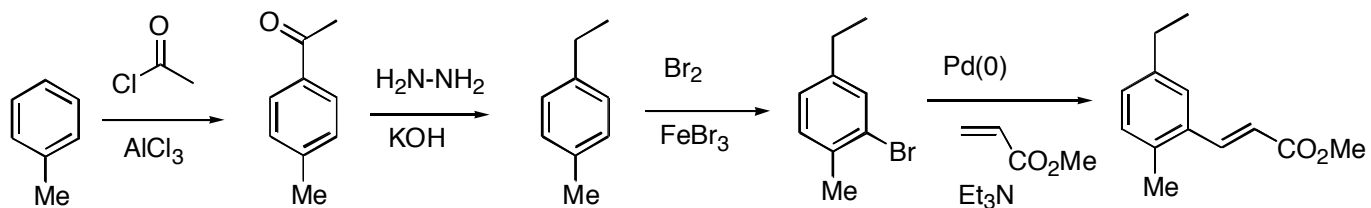
10 points each

**a**



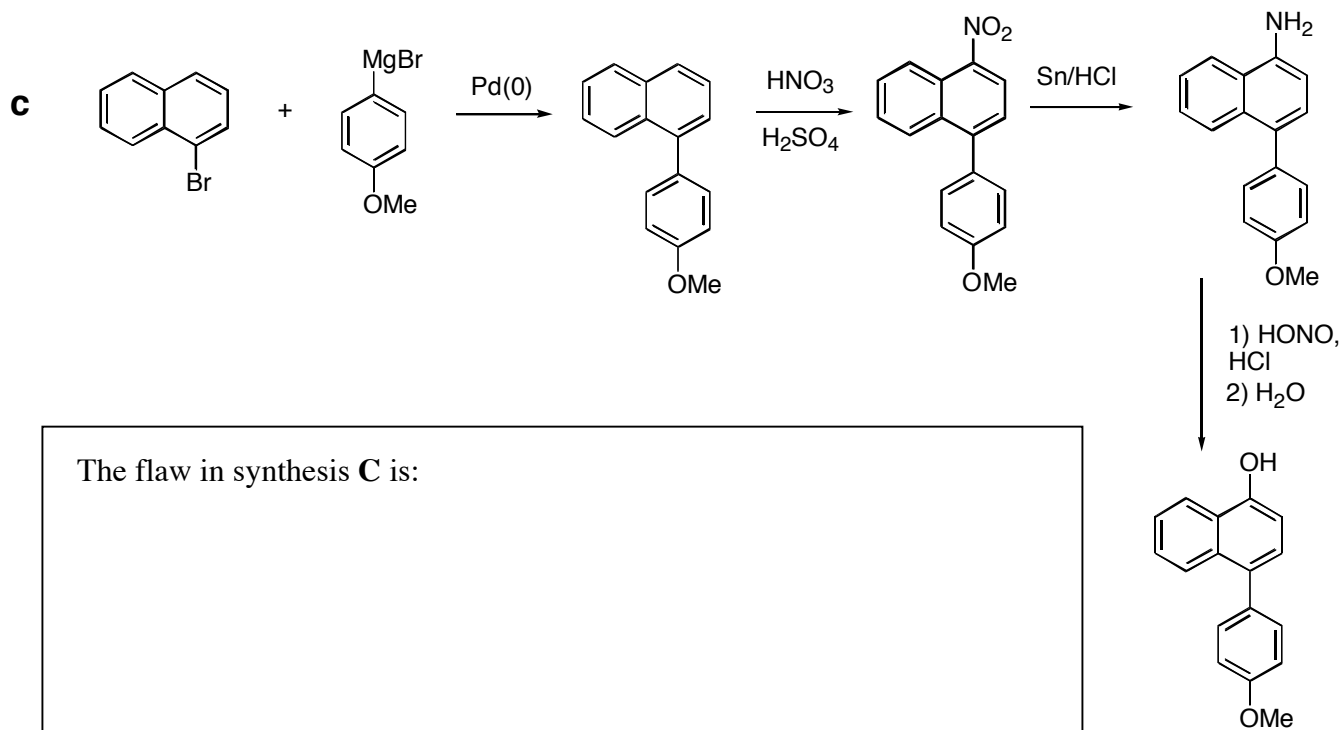
The flaw in synthesis **A** is:

**b**



The flaw in synthesis **B** is:

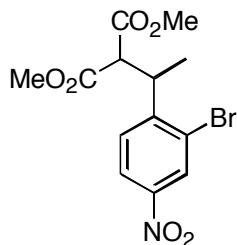
2(cont) There is a problem with each following syntheses. CIRCLE the problematic step, and Describe the problem in the space below.



The flaw in synthesis C is:

3. Provide a multistep synthesis starting from benzene and any materials that contain 5 carbons or less.

25 points



4. Provide a detailed arrow pushing mechanism (30 points)

