

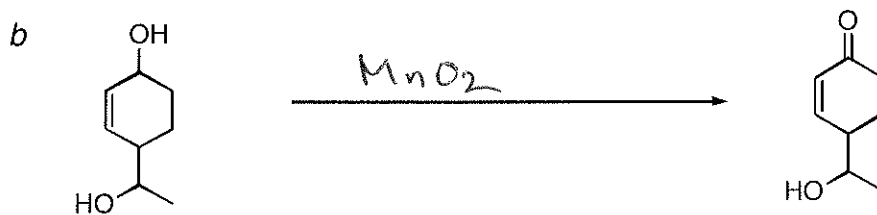
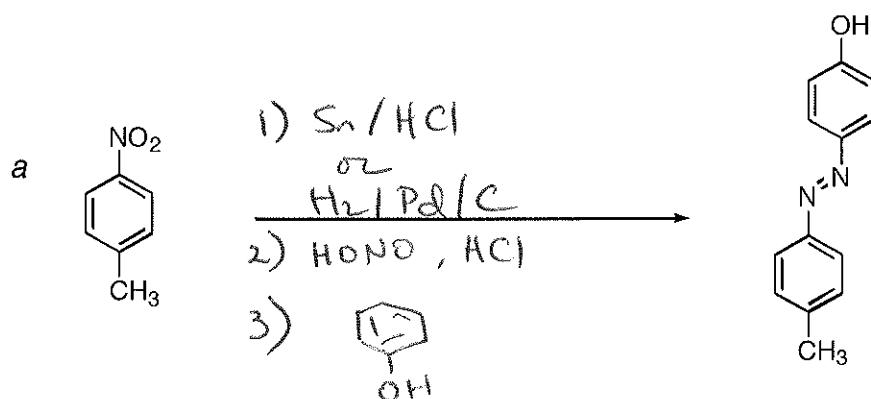
Chem 332  
Exam 3  
May 5, 2006  
Prof Fox  
50 minutes  
100 points

Show your work in detail

Write your name on every page

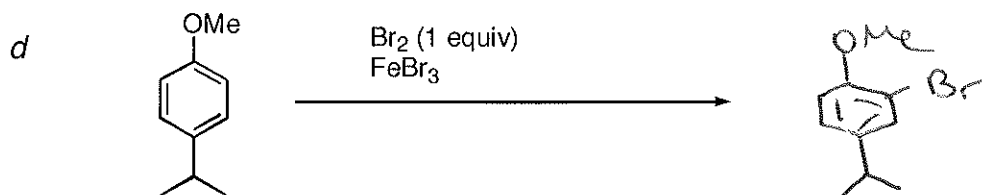
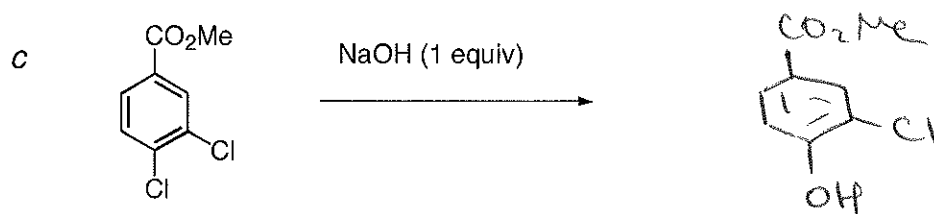
Name\_\_\_\_\_

1. Provide reagents. More than one step may be required (5 points each)  
Mechanisms are not needed.

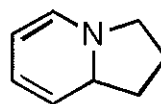
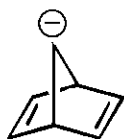
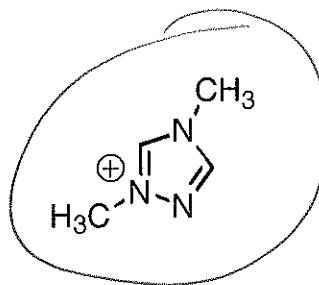
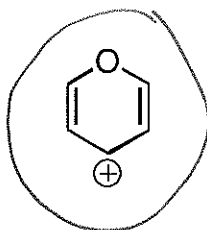
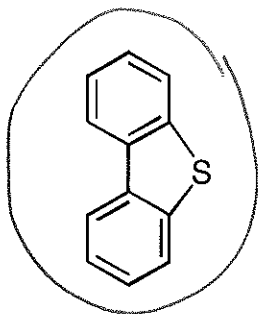


1. Provide the products of the following transformations.  
Mechanisms are not needed.

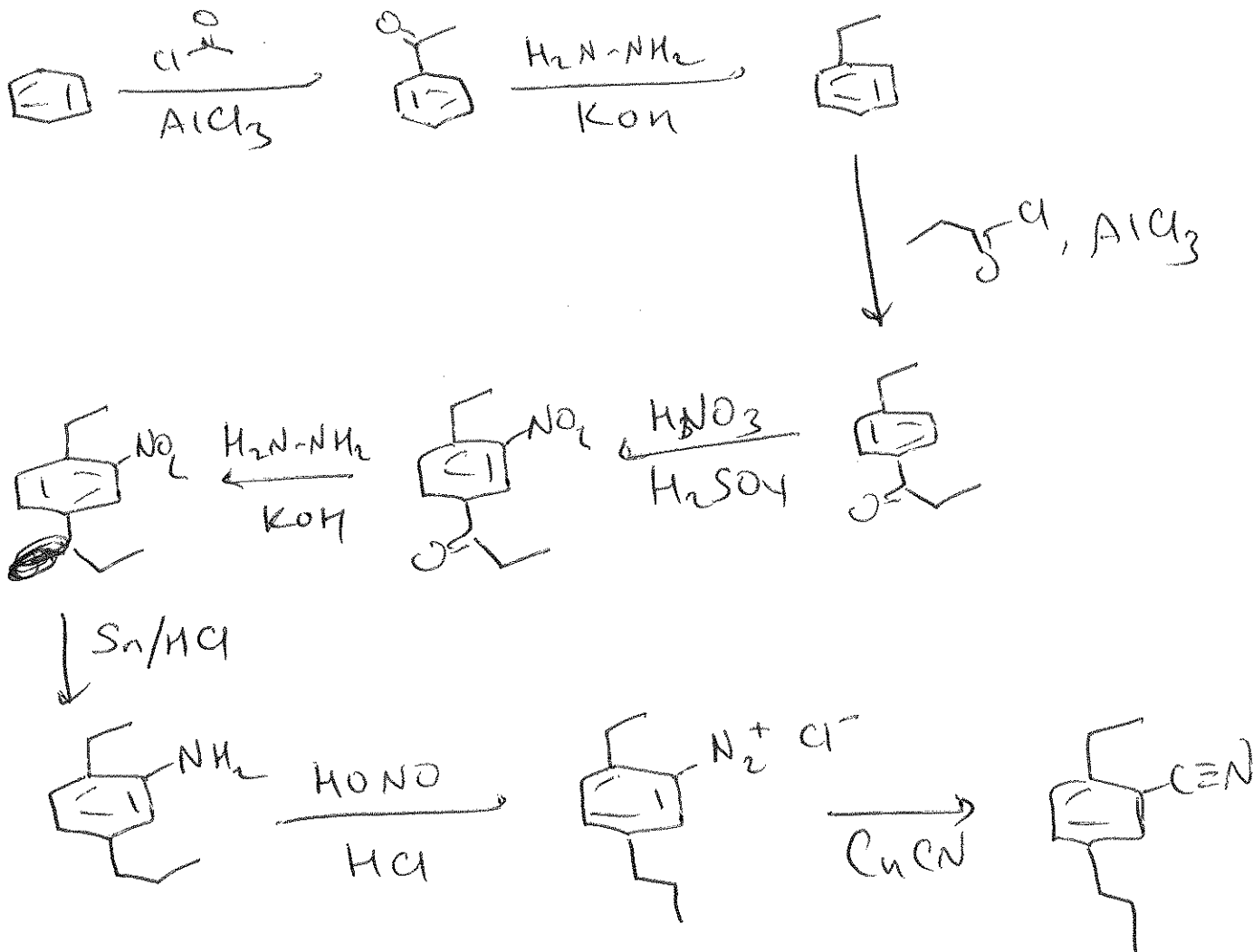
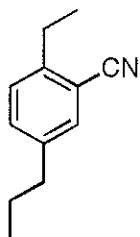
(5 points each)



2. Circle the compounds that are aromatic (5 points for each correct answer)



3. Provide a synthesis using benzene and any other materials that contain 3 carbons or less. (30 points)



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

