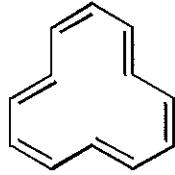
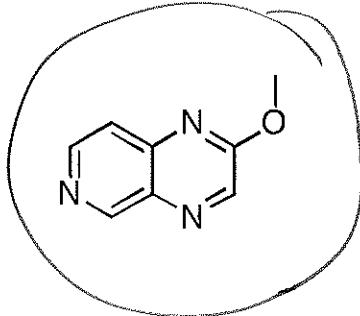
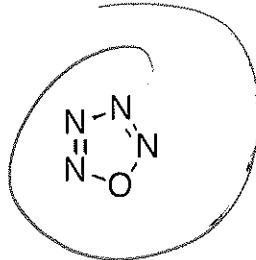
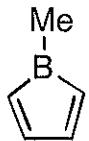
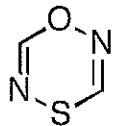


2010 EXAM 3 Answers

NAME _____

hey

1. Circle the molecules that are aromatic. No partial credit. 3 points each

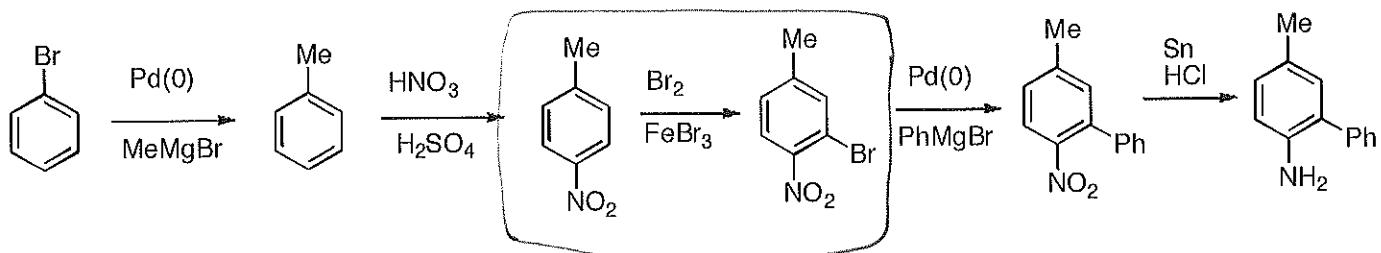


NAME

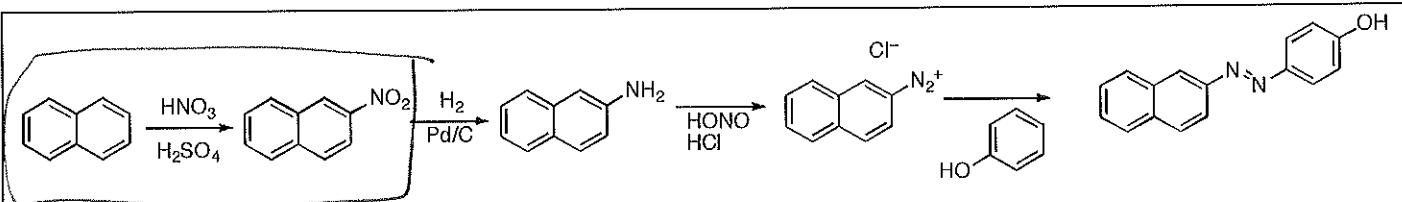
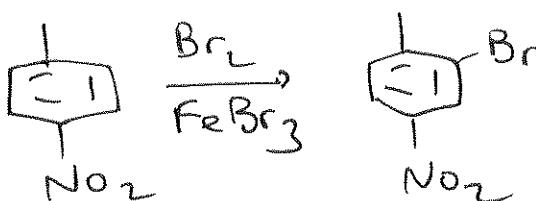
Ley.

2. There is a problem with each of the following syntheses. (8 points each)

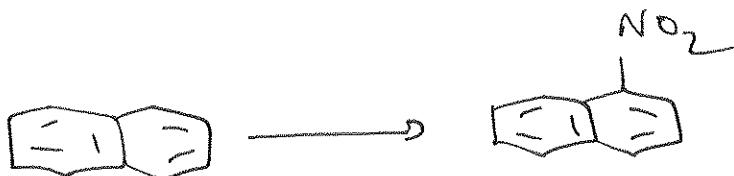
CIRCLE the problematic step, and describe the problem in the space below in 30 words or less



and the Nitro directs META



Naphthalene undergoes electrophilic substitution
AT α-CARBON

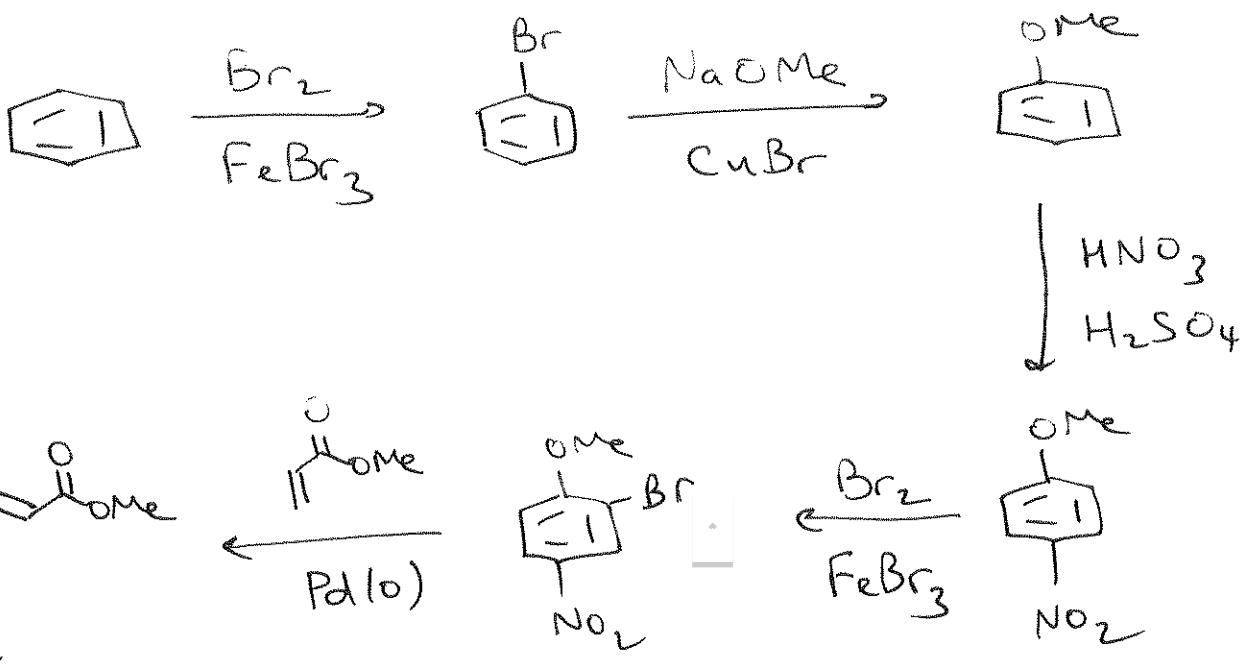
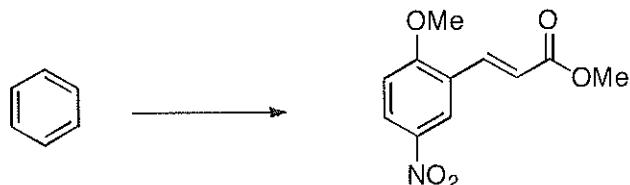


NAME

key

3. 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)



NAME key

4. Provide a detailed arrow pushing mechanism (24 points)

