

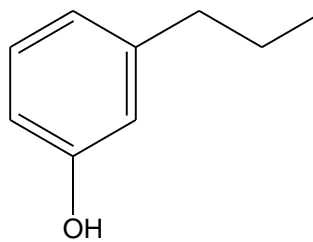
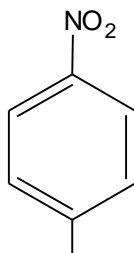
Practice Exam 1

1. Draw the following compounds.

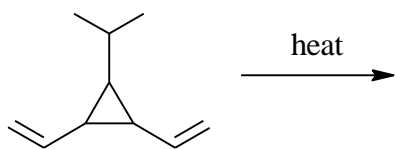
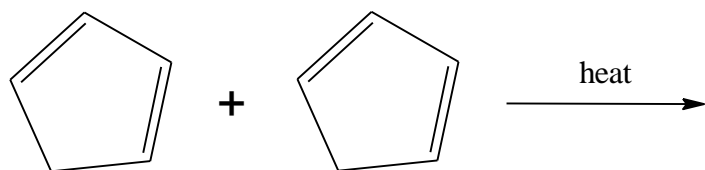
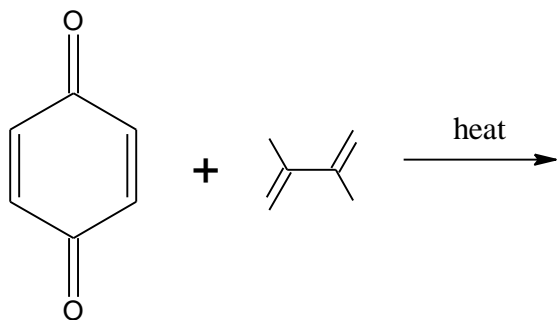
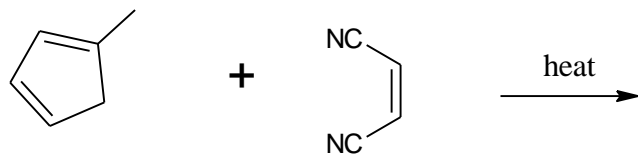
a. 2,3,4-trifluorophenol

b. *m*-bromoaniline

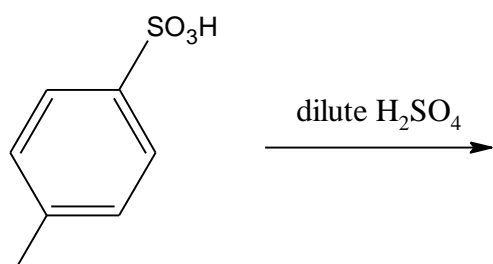
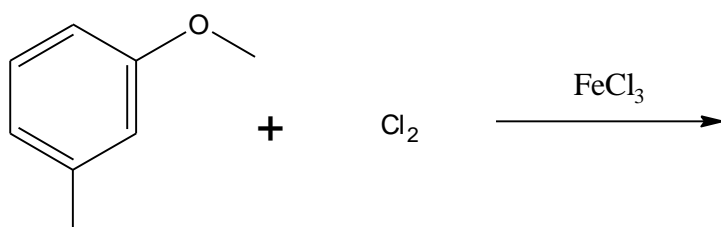
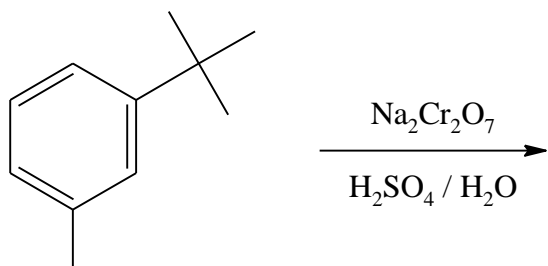
2. Name the following compounds.



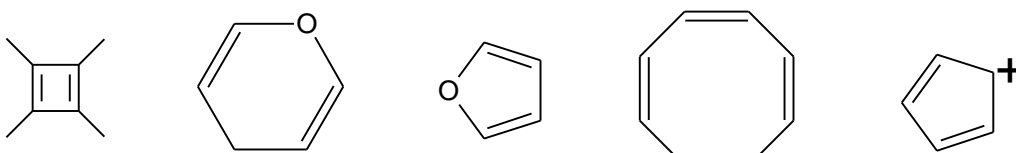
3. Draw the major expected product for each reaction below.



4. Draw the major expected product for each reaction below.

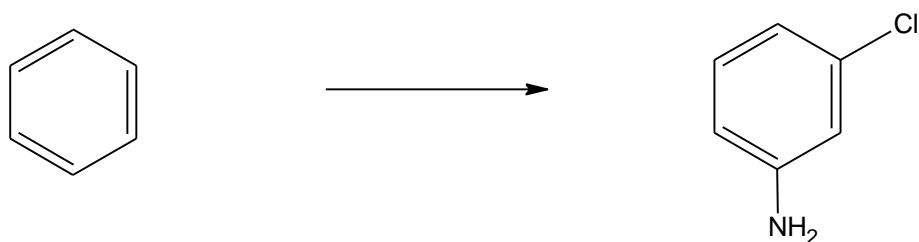
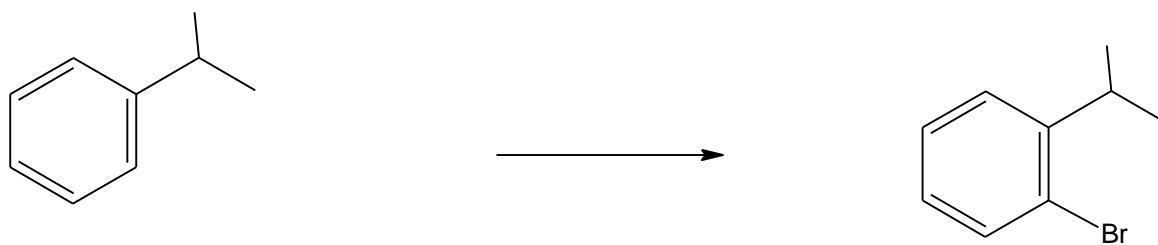


5. Identify each structure below as aromatic, non-aromatic or anti-aromatic. All are flat unless otherwise specified.



Not a flat molecule

6. Provide the complete multistep synthesis to get exclusively the product shown below. Include reaction conditions and the compound formed at each proposed step.



7. What is the product for the reactions sequence shown below? Correctly name the product formed.

