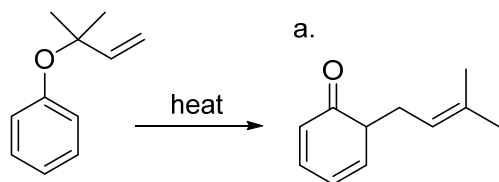


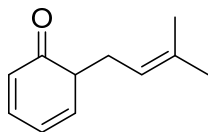
Name: _____

1. Circle the major product for the following reactions. (2 points)

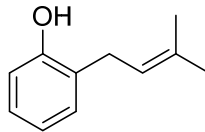
i.



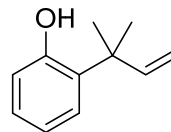
a.



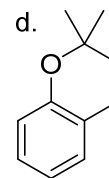
b.



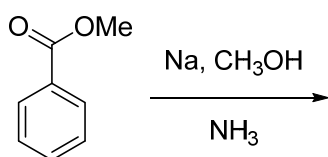
c.



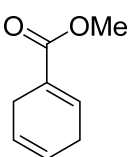
d.



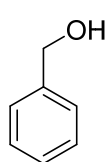
ii.



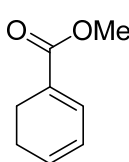
a.



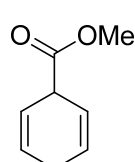
b.



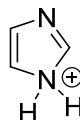
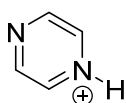
c.



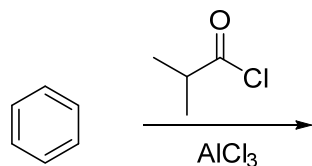
d.



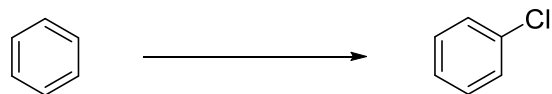
2. Identify the following compounds as aromatic, anti-aromatic or non-aromatic. (2 points)



3. Provide the major product(s) for the following reaction. (1 point)



4. Provide the reagents for the following reaction. (1 point)



5. Provide a mechanism to account for the following reaction. (4 points)

