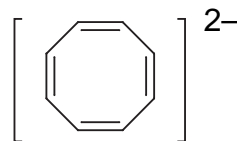
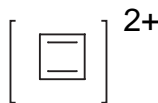
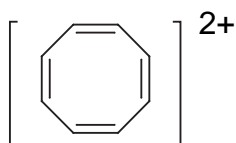
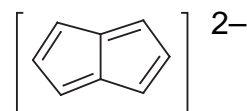
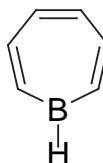
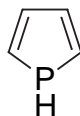
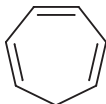
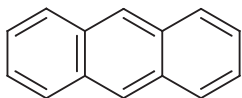


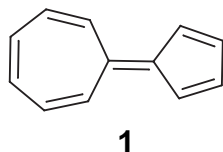
1. Which of the following are aromatic. Draw "Frost Circles" that support your answers



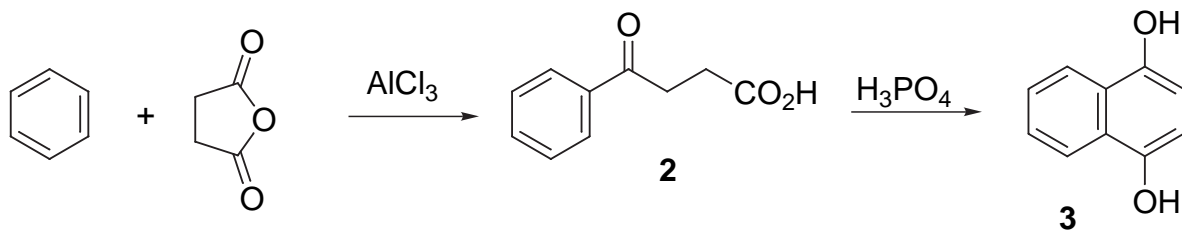
2. Which of the following are aromatic. Use the Huckel rule to support your answer



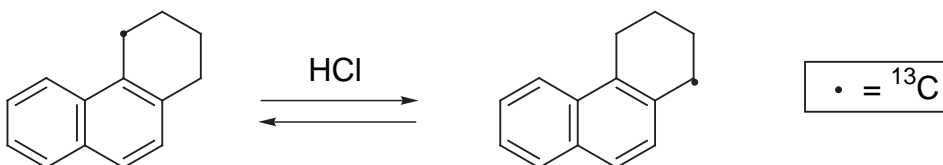
3. Compound **1** has an unusually large dipole moment for an organic hydrocarbon. Explain why (consider resonance structures for the central double bond)



4. Provide mechanisms for the formation of **2** and **3**.



5. Provide a mechanism. This problem is easier than it looks!



6. Devise syntheses of the following, using benzene and any other materials containing 3 carbons or less.

