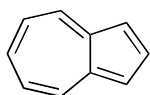
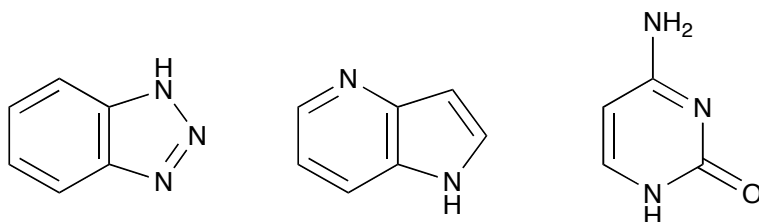


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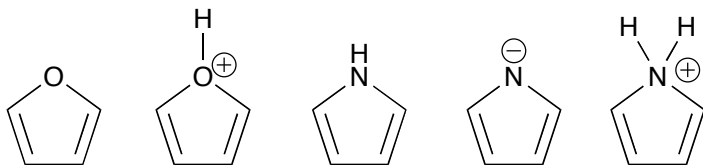
1. Azulene, below, is just a hydrocarbon, yet it is quite polar (it has an unusually large dipole moment). Is azulene aromatic, antiaromatic, or nonaromatic? Can you draw highly favorable resonance structure that makes each of its rings aromatic? Why is it polar?



2. Show which nitrogens are strongly basic and weakly basic in the following aromatic compounds, and explain why.



3. Decide whether the following compounds are aromatic, antiaromatic, or nonaromatic, and why.



4. Consider the two following hydrocarbons. Are they aromatic, antiaromatic, or nonaromatic, and why? Draw the result of reaction of each of these compounds with strong acid and strong base. Are these products aromatic, antiaromatic, or nonaromatic, and why?

