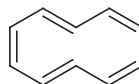
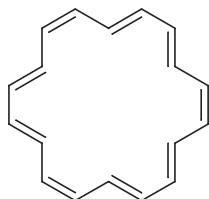
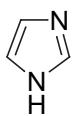
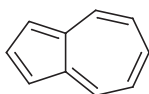


Chem 332, Spring 2003, Professor Fox, Practice questions for exam 3

1. Indicate if the following molecules are aromatic

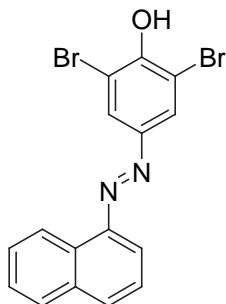


2. Azulene has an unusually large dipole for an organic hydrocarbon. Explain why.



azulene

3. Propose a synthesis starting from benzene, naphthalene, and any other materials



4. Propose a mechanism

