(27) **Today**

Next Class (28)

Chap 15.2 – 15.6: Aromaticity

Chap 15.2 – 15.6: Aromaticity

Chap 16.1 - 16.5: Electrophilic Aromatic Substitution

(29) Second Class from Today

Third Class from Today (30)

Chap 16.1 - 16.5: Electrophilic Aromatic Substitution

Chap 16.1 - 16.5: Electrophilic Aromatic Substitution

Please hand in reworked test 2.

Senior Composition Recital, 7:00 pm Dower Center (134?)

Rules for Aromaticity and Antiaromaticity

Criteria for Aromaticity

- 1.Uninterrupted π cloud
 - •cyclic
 - •p orbital on every atom
 - •planar
- 2. odd number of pairs of electrons or 4n+2 e-'s

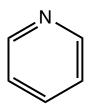
Criteria for Antiaromaticity

- 1. Uninterrupted π cloud
 - •cyclic
 - p orbital on every atom
 - •planar
- 2. even number of pairs of electrons or 4n e-'s in the $\boldsymbol{\pi}$ system

Aromatic, Antiaromatic, Resonance Stabilized, or None of the Above

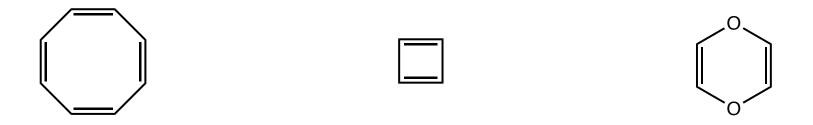




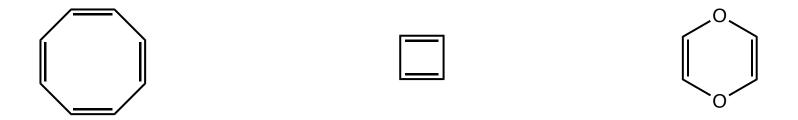


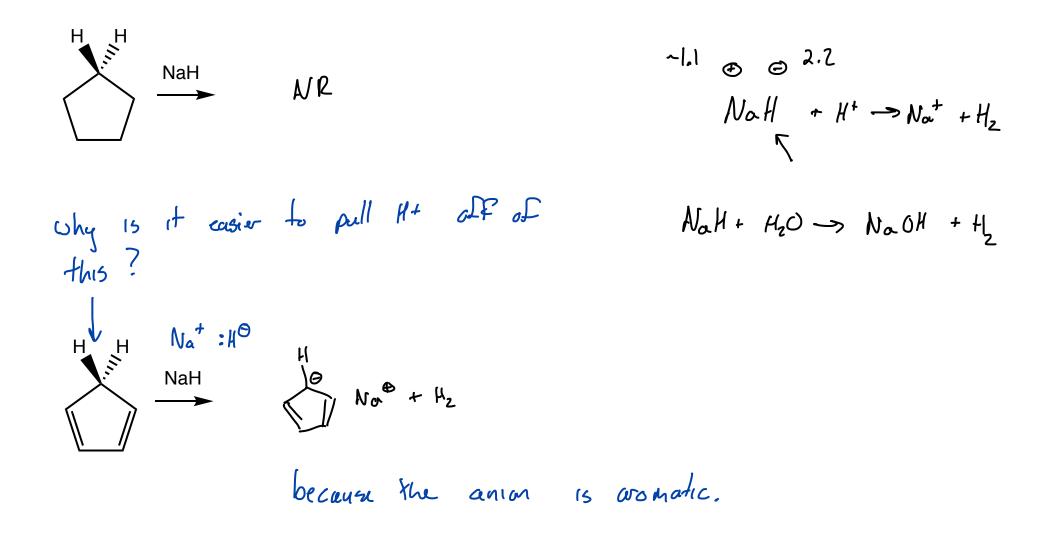


Aromatic, Antiaromatic, Resonance Stabilized, or None of the Above

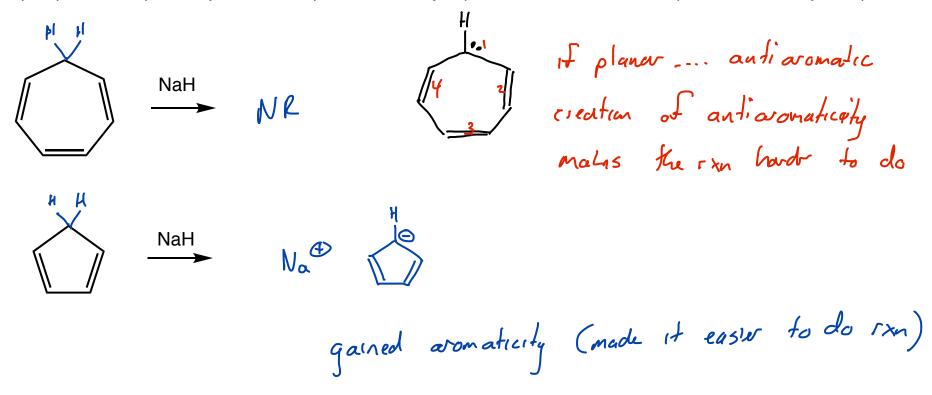


More on Antiaromaticity





Sample question: Explain why NaH can deprotonate 1,3-cyclopentadiene but it cannot deprotonate 1,3,5-cylcoheptatriene.



Sample question: Explain why solutions of 7-bromo-1,3,5-cycloheptatriene can conduct electricity when dissolved in polar solvents.

