## **CONCEPT:** AROMATICITY OF HYDROCARBONS

We can use our knowledge of the Four Tests of Aromaticity to confirm aromaticity

- *Huckel's Rule* = <u>Aromatic</u> (4n + 2) π electron numbers: \_\_\_\_\_, \_\_\_\_, <u>etc.</u>
- Breslow's Rule = Anti-aromatic (4n) π electron numbers: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, <u>etc.</u>
- Non-aromatic = FAILS one or more test (including odd number of  $\pi$  electrons)

**EXAMPLE:** Determine the aromaticity of the following molecules

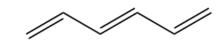
a.



h.



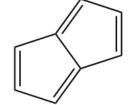
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4



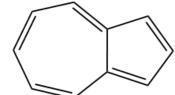
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f.



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h



i.

