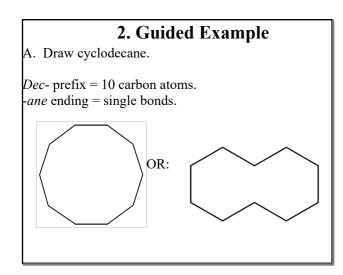
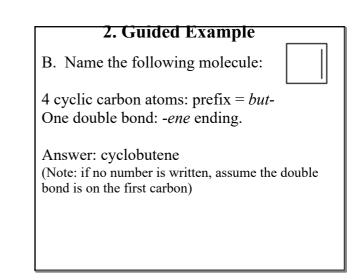
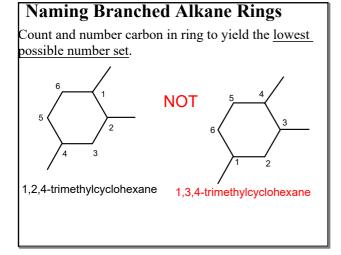
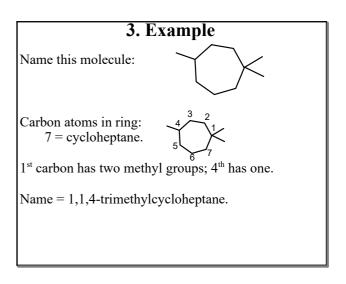
7.3 - Cyclic Hydrocarbons cycloheptane

Cyclic Hydrocarbons Hydrocarbons form rings. Count carbons in parent ring to determine name. Add cyclo- prefix (no numbers needed yet). 1. Guided Examples A: 6 carbon (single bonds) → cyclohexane B: 8 carbon (1 double bond) → cyclooctene C: 5 carbon (1 triple bond) → cyclopentyne.

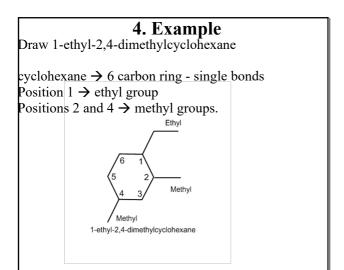


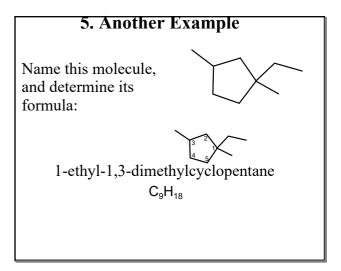


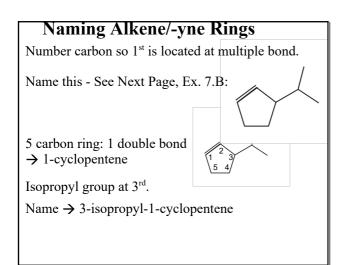


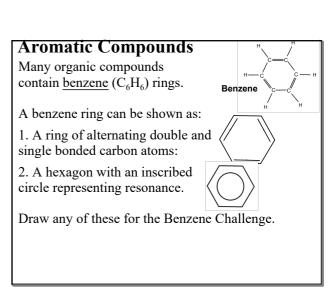


Chem Unit 7.3 Notes - Cyclic Hydrocarbons

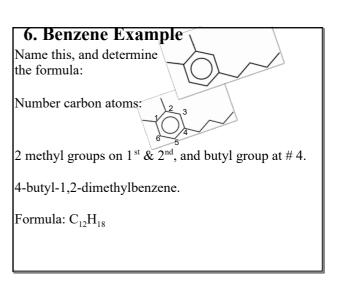








Naming Aromatics Number the carbon atoms in ring to give the lowest numbers possible. End with -benzene. (Never cyclobenzene) Formula Shortcut: C_nH_{2n-6}



Chem Unit 7.3 Notes - Cyclic Hydrocarbons

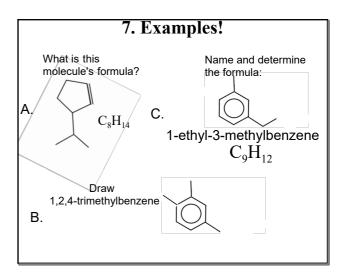
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Benzene was isolated in 1825 by Michael Faraday; had the formula C_6H_6 .

Chemists realized it must have both single and double bonds, but could not determine the structure: it wasn't reactive like other double bonded organic molecules.

Finally, in 1865, Friedrich Kekulé proposed a ring structure.

He claimed it came Ouroboros, an snake emblem, own tail, and he to him in a dream: ancient Egyptian was swallowing its saw the structure.



Homework

7.3 Problems in your Booklet Due next class.