

03/25/14
Workshop 7
Chem. 103, Spring 2014
Chapter 6 and 5
(Full points 20)

Submission deadline **ALL SECTIONS** Week 31 March-4th April

Chapter 6

A. Resonance and formal charges

- i) Draw the Lewis structure of O₃, CO₃²⁻, NO₃⁻, and N₂O
- ii) Read page 197 and define resonance structure using your own words
- iii) Short lecture on formal charge
- iv) Calculate the formal charges on the molecules in A i)
- v) **Home-assigned problem.**

6.37

B. Exception to the Octet Rule

Home-assigned reading

Incomplete Octet (page 199). Draw the Lewis structure of BeCl₂, BI₃
Odd number of electrons (page 200). Draw the Lewis structure of NO₂
Expanded Octet (page 201). Draw the Lewis structure of AsF₅, SO₄²⁻

Chapter 5

C. Determination of Empirical Formula and Molecular Formula

- i) Read page 170 and determine the empirical and molecular formula of the compound described in example 5.16 (page 170).
- ii) **Home-assigned problem**
Read page 150 to learn laws of multiple proportion and solve

5.105