

CHEM 233: HOMEWORK SHEET
EXAM I (Fall 2004-Dr. Babb)

- Chapter 1:**
- A. Review (pg. 1-7)
Homework: 1.1-1.4
 - B. Lewis Structures and Hybridization (pg. 7-19)
Homework: 1.5-1.16, 1.24-1.31, 1.37-1.41, 1.43, 1.46, 1.47
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- Chapter 2:**
- A. Electronegativity, Polarity, and Formal Charges (pg. 29-37)
Homework: 2.1-2.3, 2.5, 2.6, 2.30; 2.8, 2.9, 2.35
 - B. Resonance (pg. 37-43)
Homework: 2.10, 2.36, 2.37, 2.56
 - C. Acids and Bases (pg. 43-55)
Homework: 2.11-2.16, 2.41-2.43, 2.45, 2.47
 - D. Skeletal (Line) Structures (pg. 55-58)
Homework: 2.20-2.22, 2.27, 2.28
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- Chapter 3:**
- A. Functional Groups (pg. 68-73)
Homework: 3.1, 3.24, 3.30, 3.31
 - B. Alkanes, Alkyl Groups, and Cycloalkanes (pg. 74-80; 86-89)
Homework: 3.4-3.8, 3.26-3.28, 3.42
 - C. Nomenclature of Alkanes and Cycloalkanes (pg. 80-86; 89-91)
Homework: 3.11-3.17, 3.34, 3.39, 3.43-3.46, 3.49
 - D. Cis/Trans Isomerism in Cycloalkanes (pg. 92-94)
Homework: 3.18, 3.19, 3.50, 3.52-3.54, 3.59
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- Chapter 4:**
- A. Alkane Conformations and Newman Projections (pg. 103-109)
Homework: 4.2-4.4, 4.24-4.26
 - B. Cycloalkanes: Conformations and Ring Strain (pg. 109-128)
Homework: 4.12, 4.13, 4.17, 4.22, 4.32-4.35, 4.37-4.39
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- Chapter 5:**
- A. Introduction to Organic Reactions (pg. 135-137)
 - B. Radical Reactions (pg. 138-139)
Homework: 5.1, 5.24; 5.3, 5.37
 - C. Polar Reactions, Nucleophiles, and Electrophiles (pg. 139-149)
Homework: 5.4, 5.8, 5.9, 5.23, 5.40
 - D. Thermodynamics, Equilibrium, and Kinetics Review (pg. 150-162)
Homework: 5.10-5.15

NOTE: Exam I is Thursday, Sept. 23 (7-8:30 PM) and will cover most of the topics listed on this sheet. You are responsible for material covered in lecture, reading material in text and material covered in homework problems. To the exam bring a #2 pencil, pen, and a photo ID.