Concepts to know Exam 2

This exam covers Chapter 3, Chapter 6, and section 7.1

• Setting up a Linear programming problem. 
  Be sure to define the variables.
• Inequalities
  – Graphing
  – Shading for the feasible region.
  – Manipulation
• Solving Linear programming problems.
  – Graphing method
    * feasible region
    * Corner points
    * How to find a solution.
• Set operations.
• Subsets and Elements.
• Translating sets to English.
• Translating English to sets.
• Filling in a Venn Diagram
• Shading Venn diagrams
• Counting
  – Venn Diagrams
  – Tables
  – Trees
  – Multiplication Principle
  – Combinations
  – Permutations
  – Counting what you want by counting what you don’t want
  – Formulas.
• section 7.1
  – Sample space
  – Events
  – Outcomes
  – Mutually exclusive
• All problems like those on the handouts
• Any additional topic discussed in class.