MATH 3706 and COMP 3706  
Introduction To Computer Algebra  
Spring Quarter 2006  
Assignment Sheet 2

Reading.
• Chapter 2 in the textbook.

Discussion Problems
• Section 2.2, pages 56-57, problems 1, 2, 3, 4. These exercises will help you explore the properties of automatic simplification.
• Section 2.4, pages 74-75, problems 1, 2, 3. These exercises will help you understand the set and list operations.

Assignments to Turn In
• Problem Set 3 - See Calendar for due date.
  – Section 2.1, p. 49, problem 3. For parts (b) and (c), give the mathematical reasoning you used to obtain your answer.
  – Section 2.2 - page 57, problems 5.
  – Section 2.2 - page 57, problems 7. Do a sufficient number of tests to illustrate the reordering
• Problem Set 4 - See Calendar for due date.
  – Section 2.3. For each of the following programs submit a clean print out of your work session. Be sure to include all the test cases.
    1. page 66-2. Test your program on the families $y - x^2 = K$, $x^2 + y^2 = k$, $x^2 - y^2 = K$.
    2. page 66-3. Test your program on the data in the exercise.
    3. page 66-4. Test your program on the data in the exercise.
    4. page 66-5. Test your program on the data in the exercise.