Homework for Weeks 1-2
Jan. 2-11, 2008

The textbook exercises listed here should be completed before class begins; students will share solutions to these exercises at the beginning of class. You should be prepared to share a solution to any one of these.

Before Class on **Friday, January 4**, read Section 3.5 (upto page 236) and work the following exercises:
Section 3.5, Exercises # 1, 3, 7, 15, 45, 47

Before Class on **Monday, January 7**, finish reading Section 3.5 and work the following exercises:
Section 3.5, Exercises # 25, 27, 29, 49, 55, 57
*Comment:* In problem 49, the word ‘range’ here means the difference between the player’s high score and low score.

Before Class on **Tuesday, January 8**, read Section 3.6 (upto page 246) and work the following exercises:
Section 3.6, Exercises # 1, 3, 5, 11, 13

Before Class on **Wednesday, January 9**, finish reading Section 3.6 and work the following exercises:
Section 3.6, Exercises # 29, 33, 39, 49, 51

Before Class on **Thursday, January 10**, reading Section 4.4 (upto page 304) and work the following exercises:
Section 4.4, Exercises # 3, 7, 9, 15

Before Class on **Friday, January 11**, finish reading Section 4.4 and work the following exercises:
Section 4.4, Exercises # 17, 21, 23, 25, 27

Before Class on **Monday, January 14**, read Section 7.1 and work the following exercises:
Section 7.1, Exercises # 1, 7, 11, 25, 27, 37, 49, 51

*More on back.*
Additional Practice Problems

Practice as many of these problems as you can. You may use your solutions as notes during the quizzes on Tuesday, January 8 and Tuesday, January 15. (Note: You should only need sections 3.5 and 3.6 for the January 8 quiz.)

Section 3.5, Exercises # 5, 9, 11, 13, 31, 33, 35, 37, 41, 43, 51
Section 3.6, Exercises # 7, 9, 17, 19, 21, 23, 31, 35, 43
Section 4.4, Exercises # 1, 11, 19, 29, 31, 33
Section 7.1, Exercises # 3, 5, 9, 13, 21, 29

Written Homework

Your typed solutions to the following questions will be due at the beginning of class on Monday, January 14. Remember to save your work so that you can edit it or make corrections for your portfolio submission at the end of the course.

Problem #1: Solve the following problems using systems of equations and the addition method. Begin each problem by introducing variables and stating their meanings.

(b) A board 12 inches long is to be cut into two pieces so that one piece is 3 feet longer than the other piece. How long is each piece?

(a) In three consecutive football games, a quarterback threw for an average of 325 yards per game. If the quarterback threw for the same number of yards in each of the first two games but for 60 yards more in the third game, for how many yards did he throw in each game?

Problem #2: Solve each of the following equations/inequalities for $x$. Find all the solutions, or if there are no solutions, explain why.

(a) $|2x + 3| = 7$
(b) $|x - 1| = -2$
(c) $|2x - 1| < 2$

Comments: Explain your answers carefully. Your should imagine that your audience is another student who is trying to learn algebra.