General Information:

• Quiz 1 will take place on Monday, October 19, in class. It will take about 30 minutes.

• The quiz will cover equations of lines, squares and square roots, multiplying polynomials, and factoring.

• Bring a calculator to the quiz. You will be at a disadvantage if you do not have one, and I cannot allow you to share a calculator with someone else during the quiz.

• The quiz will have 10 questions. To pass the quiz, you need to correctly answer 8 of the questions. I recommend checking your answers after every problem.

Study Tips

• Work the two Practice Quizzes on the attached sheet, and check your answers with the solutions (which will be posted on course webpage).

• Review Worksheets 3 through 6 and Homeworks 3 through 5. In particular, review the problems listed on the next page.

• Read (or skim) Chapter 4 (pages 80–93), Chapter 7 (pages 140–143), Chapter 8 (pages 152–155), Chapter 10 (pages 198–199), and Chapter 11 (pages 206–211) of the textbook. Work the problems from the textbook listed on the next page, and check your answers in the back of the book.

• Go to the Math Study Room, come to my office hours, or meet with a tutor if you have any questions.

Office Hours
My office hours are:

• Tuesday 6 - 7 pm in RKC 111
• Wednesday 2 - 4 pm in BARC
• Thursday 7 - 9 pm in BARC

Math Study Room
The Math Study Room is open Sunday through Wednesday, 7 - 10 pm, in RKC 111.
Topics

• **Equations of Lines:** Equations for lines, slopes of lines, graphs of lines, and intercepts.
  - Chapter 4, page 100: Questions 1, 2, 3, 4, and 5
  - Worksheet 3: Problems 3, 4, 5, and 6
  - Worksheet 4: Problems 1 and 2
  - Homework 3: Problems 1, 2, and 3

• **Intersection Point:** Be able to find the intersection point of two lines.
  - Chapter 7, page 148: Question 2
  - Worksheet 4: Problems 4 and 5
  - Homework 3: Problems 7 and 8

• **Squares and Square Roots:** Be able to solve equations that involve squares and square roots. Remember to include the \( \pm \) in your answer when needed.
  - Chapter 11, page 226: Question 2
  - Worksheet 5: Problem 1
  - Homework 4: Problem 1

• **Multiplying Polynomials:** Be able to multiply polynomials.
  - Chapter 8, page 164: Question 2
  - Worksheet 5: Problems 6
  - Homework 4: Problems 7

• **Factoring:** Be able to factor polynomials. Be able to solve quadratics by factoring.
  - Chapter 10, page 203: Question 4
  - Chapter 11, page 226: Question 1
  - Worksheet 5: Problems 7, 8, and 9
  - Homework 4: Problem 8
Practice Quiz A, Group 2

1. Find the equation for the line through the points (−2, 3) and (1, 9).

2. Find the equation for the line through the points (2, 3) and (2, −5).

3. Find the point of intersection of the following two lines:
   \[ 3x + y = 8 \]
   \[ 7x - 2y = -3 \]

In problems 4 and 5, solve the given equation.

4. \[ 3x^2 - 5 = 7 \]

5. \[ \sqrt{x - 1} = 5 \]

In problems 6 and 7, multiply the given polynomials.

6. \((x - 3)(x - 5)\)

7. \((x^2 + 4)(x - 2)\)

In problems 8 and 9, factor the given polynomials.

8. \(x^2 - 7x\)

9. \(x^2 + 6x + 8\)

In problem 10, solve the given equation.

10. \((x - 3)(2x - 6) = 0\)
1. Find the equation for the line through the points (1,2) and (3,8).

2. Find the x-intercept of the line $y = 3x + 5$.

3. Find the point of intersection of the following two lines:
   
   \[ x - 3y = 1 \]
   \[ 2x - 5y = 4 \]

4. $2x^2 + 2 = 20$

5. $2\sqrt{x} + 1 = 9$

6. $(x + 2)^2$

7. $(x + 3y)(x - 2y)$

8. $x^2 - 9$

9. $x^2 - 7x + 12$

10. $x^2 + 9x + 18 = 0$