Math 44 - Final Exam Study Guide

Chapter 5

1. Be able to factor monomials, binomials, trinomials, and four term polynomials. *(Sections: 5.1-5.4)*

2. Be able to solve equations by factoring. *(Section: 5.7)*

3. Be able to solve polynomial applications by factoring.*(Section: 5.8)*

Chapter 6

1. Be able to add, subtract, multiply, divide, and simplify rational expressions. *(Sections: 6.1-6.3)*

2. Be able to simplify complex fractions. *(Section: 6.4)*

3. Be able to solve equations involving rational expressions. *(Section: 6.5)*

4. Be able to solve applications involving rational expressions, i.e., distance problems and work problems. *(Section: 6.6)*

Chapter 7

1. Be able to solve absolute value equations and inequalities. *(Sections: 7.1-7.3)*

Chapter 8

1. Be able to find the slope of a line. *(Section: 8.2)*

2. Be able to find the equation of a line in slope-intercept form using the point-slope formula. *(Section: 8.3)*

3. Know the how parallel lines relate to each other. Know how perpendicular lines relate to each other. Given information about one line, be

able to find the equation of a line parallel and/or perpendicular to the line given. *(Section: 8.3)*

4. Know what a function and be able to determine whether a graph and/or table of points is or is not a function. *(Section: 8.4)*

Chapter 9

1. Know the rules for exponents including rational exponents. *(Sections: 9.3)*

2. Be able to add, subtract, multiply, divide, and simplify radical expressions. *(Sections: 9.4-9.5)*

3. Be able to solve equations involving radical expressions. *(Section: 9.6)*

Chapter 10

1. Be able to solve quadratic equations by completing the square. *(Section: 10.1)*

2. Know the quadratic formula and be able to use it to solve quadratic equations. *(Section: 10.2)*

Chapter 11

1. Understand exponential functions. *(Section: 11.1-11.2)*

2. Understand logarithmic functions. *(Section: 11.3-11.4)*

3. Know and be able to use the properties of logarithms. *(Section: 11.5)*

4. Be able to solve both exponential and logarithmic equations. *(Section: 11.6)*