Next to each topic are problems from the **Chapter 1 Test on page 135** of the Textbook. Also study the homework problems. A complete list of the homework problems is on the course webpage.

- Use the rules of exponents to simplify exponent expressions (**Problem 2a-f, 4b, 4c**)
- Simplify radical expressions
 - Rationalize the denominator (or numerator) of an expression (**Problem 5**)
 - o Combine radicals (Problem 4a)
- Polynomials
 - Add, Subtract, Multiply (Problem 6a-f)
 - Factor (Problem 7a-d, f)
- Factor expressions with fractional exponents (**Problem 7e**)
- Rational Expressions Reduce, Add/subtract, Multiply/divide (Problem 4d, e, f)
- Solving Equations
 - Linear Equations (Problem 8a)
 - Quadratic Equations (Problem 8c, d) -Know how to use all three methods:
 Factoring, Completing the square, and Quadratic Formula)
 - Other non-linear equations (Problem 8b,e)
- Inequalities Linear and non-linear. Know how to graph the solution and write it in interval notation (**Problem 11a, b, d**)