

Test 2 Preparation

1. The test covers chapters 5 and 6.
2. Use the homework, class work, and class examples as a study guide. In other words, any problem from the homework or class work is fair-game on the exam.
3. Memorize the following:
 - a) Perfect square trinomial factoring formulas.
 - b) Difference of two squares factoring formula.
 - c) Sum/difference of two cubes factoring formula.
 - d) Pythagorean Theorem
4. A well-prepared student should be able to...
 - a) answer questions involving the various definitions having to do with polynomials. [5.1]
 - b) add, subtract, multiply polynomials [5.1, 5.2]
 - c) factor polynomials. [5.3-5.7]
 - d) solve polynomial equations [5.8]
 - e) solve applications [5.8]
 - f) simplify, multiply, divide, add, and subtract rational expressions. [6.1, 6.2]
 - g) simplify complex fractions. [6.3]
 - h) graph the rational function $f(x) = 1/x$
 - i) evaluate rational functions. [6.1]
 - j) solve rational equations. [6.4]
 - k) solve applications involving rational equations. [6.5]
 - l) long divide polynomials. [6.6]
 - m) solve a formula for a specified variable. [6.8]
 - n) solve variation problems. [6.8]