

CP Algebra 2
Test #1
250 Points
Tuesday 2/07/12

I. Types of Numbers

- Know: Natural, Whole, Integer, Rational, Irrational, Real Numbers.
- Be able to write either a terminating or repeating decimal as a simplified fraction.

II. Order of Operations / Evaluating Expressions

- Be able to follow the Order of Operations correctly when evaluating some expression.
- Watch for how to square fractions!
- You MUST show work on the test as you are permitted to use a calculator.

III. Fractional and Negative Exponents

- Understand what these are and how to simplify an expression with them.

IV. Solving Equations with Fractions

- Remember to multiply by a number to clear out fractions.
- Distribute before cleaning out fractions, if applicable.
- If two terms are being multiplied together, you do NOT distribute a multiplier to both.

V. Solving Equations with Square Roots

- Simplify all radicals completely.
- If the variable is inside the radical, get a radical by itself, then square both sides.
- If the variable is NOT inside the radical, do NOT square both sides (the variable would be squared)
- Watch for FOIL! I guarantee a problem like #12 from the quiz on this test!

VI. Solving Equations with Absolute Values

- Isolate the Absolute Value
- Set up 2 equations
- Solve the 2 equations
- Check for any extraneous solutions!

VII. Solving Inequalities and Compound Inequalities

- Be able to graph your answer on a number line
- Be able to write your answer in Interval Notation
- For absolute values... remember: “Great OR” / “Less ThAND”

VIII. Literal Equations

- In an equation with many variables, be able to get a certain variable by itself.

IX. Word Problems

- Be able to set up an equation or inequality for a particular word problem.

You MUST bring your Graphing Calculator for this test! (I will not provide extras.)