**Algebra1 Test Study Notes**

**Test Date – Friday, 24 September 2010**

**Unit 3 Test**

Solving One Step Equations

* Use Multiplication, Division, Addition or Subtraction
* Undo the operation to isolate the variable
* When dividing fractions, multiply by the reciprocal

Solving Two Step Equations

* Undo the last operation first
* Make sure any undo operations are completed on both sides of the equal sign

Solving Multistep Equations

* Undo all operations
* Combine like terms as necessary
* Simplify with distributive property if necessary

Solving Equations with variables on both sides of the equal sign

* Simplify each side of the equal sign
* Move variable by adding or subtracting from each side
* Get all of the variables on one side, and all of the constants on the other side
* Divide to get the value of one variable
* If variables eliminate
  + It the statement is true, this is an identity equation
  + If the statement is false, there is no solution

Solving equations for a specified variable

* Separate variables, by simplifying as necessary
* Move all of the desired variable to one side of the equal sign
* Move all terms without the variable to the other side of the equal sign
* Use distributive property if necessary to re-write with the variable separate from the terms
* Divide by the parenthesis part of the problem

Problems with fractions

* These problems can be solved with all the above techniques
* If you desire, you may re-write without fractions by multiplying all terms by the LCD, distribute to ALL terms

Show work for credit.

Calculators are allowed

CAS Calculators are not allowed