**Algebra1**

**Semester 2 Final Exam**

**Exam Dates – Wednesday 25 May 2011**

Solving Systems of Equations with Graphing

Solving Systems with Substitution

Solving Systems with Addition/Subtraction

Solving Systems with Multiplication

Solving Systems of Inequalities

Monomials

Polynomials

Adding and Subtracting Polynomials

Multiplying Polynomials

Special Products of Polynomials

Factors

Greatest Common Factor (GCF)

Factoring using the distributive property

Factoring trinomials 1 x2 + bx + c

Factoring trinomials A ax2 + bx + c

Special Factors

Solving with factoring

Graphing Quadratic Equations

Solving Quadratic Equations through Graphing

Completing the Square

Quadratic Formula

Exponential Functions

Growth and Decay problems

Simplify radical equations – Numbers or Variables

Simplify square roots with radicals in the denominator

Operations with Radicals

Solve equations involving a radical

Pythagorean Theorem

Distance Formula

Inverse Variation

Excluded Values

Multiplying Rational Expressions

Dividing Rational Expressions

Rational Expressions with Like Denominators

The Final Exam is 20% of your grade for this semester

Calculators may be used, no sharing, no CAS calculators

Notes may NOT be used

ECA reference sheet may be used