Ideal	Ideal	
% of Test	# of Items	Algebra II State PASS/OAS
27%	15	Number Sense and Algebraic Operations (1.0)
		Standard 1: The student will perform operations with rational, radical,
		and polynomial expressions, as well as expressions involving complex
		numbers.
	5-6	Rational Exponents (1.1)
		a. Convert expressions from radical notations to rational exponents and
		vice versa.
		b. Add, subtract, multiply, divide, and simplify radical expressions and
		expressions containing rational exponents.
	5-6	Polynomial and Rational Expressions (1.2)
		a. Divide polynomial expressions by lower degree polynomials.
		b. Add, subtract, multiply, divide, and simplify rational expressions,
		including complex fractions.
	4	Complex Numbers (1.3)
		*a. Recognize that to solve certain problems and equations, number
		systems need to be extended from real numbers to complex numbers.
		b. Add, subtract, multiply, divide, and simplify expressions involving
	- 21	complex numbers.
56%	31	Relations and Functions (2.0)
		Standard 2: Relations and Functions - The student will use the
		relationships among the solution of an equation, zero of a function, x-
		nucleons involving relations and functions
	5	Functions and Function Notation (2.1)
	3	a Recognize the parent graphs of polynomial exponential radical
		auadratic and logarithmic functions and predict the effects of
		transformations on the parent graphs using various methods and tools
		which may include graphing calculators.
		b. Add, subtract, multiply, and divide functions using function notation.
		c. Combine functions by composition.
		d. Use algebraic, interval, and set notations to specify the domain and
		range of functions of various types.
		e. Find and graph the inverse of a function, if it exists.
	5	Systems of Equations (2.2)
		a. Model a situation that can be described by a system of equations or
		inequalities and use the model to answer questions about the situation.
		b. Solve systems of linear equations and inequalities using various
		methods and tools which may include substitution, elimination, matrices,
		graphing, and graphing calculators.
		*c. Use either one quadratic equation and one linear equation or two
		quadratic equations to solve problems.
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Itst	5	Ouadratic Equations and Functions (2.3)
	-	a. Solve quadratic equations by graphing, factoring, completing the
		square and quadratic formula.
		b. Graph a quadratic function and identify the x- and y-intercepts and
		maximum or minimum value, using various methods and tools which
		may include a graphing calculator.
		c. Model a situation that can be described by a quadratic function and
		use the model to answer questions about the situation.
	4	Conic Sections (2.4)
		Identify, graph, and write the equations of the conic sections (circle, ellipse,
		parabola, and hyperbola).
	4	Exponential and Logarithmic Functions (2.5)
		a. Graph exponential and logarithmic functions.
		b. Apply the inverse relationship between exponential and logarithmic
		functions to convert from one form to another.
		c. Model a situation that can be described by an exponential or
		logarithmic function and use the model to answer questions about the
		situation.
	4	Polynomial Equations and Functions (2.6)
		a. Solve polynomial equations using various methods and tools which
		may include factoring and synthetic division.
		b. Sketch the graph of a polynomial function.
		c. Given the graph of a polynomial function, identify the x- and y-
		intercepts, relative maximums and relative minimums, using various
		methods and tools which may include a graphing calculator.
		d. Model a situation that can be described by a polynomial function and
	4	use the model to answer questions about the situation.
	4	Rational Equations and Functions (2.7)
		a. Solve rational equations.
		b. Sketch the graph of a rational function, identify the <i>x</i> and <i>y</i> intercents
		vertical asymptotes, using various methods and tools which may include
		a graphing calculator
		d Model a situation that can be described by a rational function and use
		the model to answer questions about the situation
16%	Q	Data Analysis Probability and Statistics (3.0)
1070		Standard 3: The student will use data analysis and statistics to formulate
		and justify predictions from a set of data.
	5	Analysis of Collected Data (3.1)
		a. Interpret data on a scatter plot using a linear, exponential, or quadratic
		model/equation.
		b. Identify whether the model/equation is a curve of best fit for the data.
		using various methods and tools. (graphing calculator)

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Test	Items	Algebra II State I ASS/OAS
	4	Arithmetic and Geometric Sequences (3.3)
		Identify and use arithmetic and geometric sequences and series to solve
		problems.
100%	55	Total Test