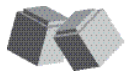


		Date		Test Score			Proficiency			
<i>Pretest (Unit Test I)</i>										
		LESSON PRACTICE		TEACH BACK	SYSTEMATIC REVIEW			H	Lesson Test	Test Date
		A	B		C	D	E			
1	Exponents									
2	Rational Expressions									
3	Scientific Notation; Combining Like Terms									
4	Radicals, Basic Operations, and Simplifying									
5	Factoring Polynomials; Rational Expressions									
6	Fractional Exponents									
7	Imaginary and Complex Numbers									
8	Conjugate Numbers									
9	Squares, Cubes, and Pascal's Triangle									
10	Binomial Theorem									

		Date		Test Score			Proficiency	
<i>Posttest (Unit Test I)</i>								

LESSON OBJECTIVES

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|---|--|
| <p>Lesson 1 Exponents</p> <p><input type="checkbox"/> A2.1.a Simplify an expression containing negative exponents so that all the exponents are positive</p> <p>Lesson 2 Rational Expressions</p> <p><input type="checkbox"/> A2.2.a Identify restricted values for variables in the denominator of a rational expression</p> <p><input type="checkbox"/> A2.2.b Perform addition and subtraction of rational expressions</p> <p><input type="checkbox"/> A2.2.c Rewrite a rational expression in simplest form</p> | <p>Lesson 3 Scientific Notation; Combining Like Terms</p> <p><input type="checkbox"/> A2.3.a State the number of significant digits in a given number</p> <p><input type="checkbox"/> A2.3.b Express answers to addition and multiplication problems using the correct number of significant digits</p> <p><input type="checkbox"/> A2.3.c Convert numbers to and from scientific notation</p> <p><input type="checkbox"/> A2.3.d Multiply and divide using scientific notation</p> <p><input type="checkbox"/> A2.3.e Identify the terms in an algebraic expression</p> <p>Lesson 4 Radicals, Basic Operations, and Simplifying</p> <p><input type="checkbox"/> A2.4.a Perform addition and subtraction operations with terms containing radicals</p> <p><input type="checkbox"/> A2.4.b Perform multiplication and division operations with terms containing radicals</p> <p><input type="checkbox"/> A2.4.c Simplify radical expressions by removing all square factors from under the radical sign</p> <p><input type="checkbox"/> A2.4.d Find decimal approximations of irrational roots using a calculator</p> |
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**Lesson 5 Factoring Polynomials; Rational Expressions**

- A2.5.a Factor second-order polynomials into two binomial factors
- A2.5.b Use vertical multiplication to factor second-order polynomials, where the coefficient of the squared term is not one, into two binomial factors
- A2.5.c Use FOIL to factor second-order polynomials, where the coefficient of the squared term is not one, into two binomial factors
- A2.5.d Factor second-order polynomials into two binomial factors using vertical multiplication, where some terms are negative
- A2.5.e Factor second-order polynomials into two binomial factors using FOIL, where some terms are negative
- A2.5.f Identify common factors as the first step to factoring a polynomial
- A2.5.g Use repeated factoring to factor a polynomial completely
- A2.5.h Factor to solve quadratic equations
- A2.5.i Simplify compound rational expressions

Lesson 6 Fractional Exponents

- A2.6.a Rewrite a radical expression as a base with a fractional exponent
- A2.6.b Rewrite a base with a fractional exponent as a radical expression

Lesson 7 Imaginary and Complex Numbers

- A2.7.a Define the imaginary number i
- A2.7.b Simplify radicals with negative numbers by factoring out i^2 (-1)
- A2.7.c Define a complex number as a number of the form $a + bi$
- A2.7.d Perform arithmetic operations on complex numbers

Lesson 8 Conjugate Numbers

- A2.8.a Write the conjugate of a real or complex binomial
- A2.8.b Use the conjugate to rationalize the denominator of a real or complex fraction

Lesson 9 Squares, Cubes, and Pascal's Triangle

- A2.9.a Write the square of a given binomial
- A2.9.b Write the square root of a given perfect-square second-degree polynomial
- A2.9.c Write the cube of a given binomial
- A2.9.d Write an arbitrary number of rows of Pascal's triangle
- A2.9.e Use Pascal's triangle to determine the coefficients for the terms of the expansion of a binomial raised to a power

Lesson 10 Binomial Theorem

- A2.10.a Describe the pattern of exponents of terms generated when raising a binomial to any power
- A2.10.b Combine knowledge of coefficients and exponents to raise a binomial to any power
- A2.10.c Generalize knowledge of coefficients and exponents in expanded binomials, using the binomial theorem
- A2.10.d Apply the binomial theorem to raise a binomial to any power

	Date		Test Score			Proficiency			
<i>Pretest (Unit Test II)</i>									
	LESSON PRACTICE		TEACH BACK	SYSTEMATIC REVIEW			H	Lesson Test	Test Date
	A	B		C	D	E			
11 Completing the Square									
12 Quadratic Formula									
13 Discriminants									
14 Applications Using Percent									
15 Isolating One Variable									
16 Ratios									
17 Unit Multipliers									
18 Distance = Rate × Time									
19 More Motion Problems									

	Date		Test Score			Proficiency	
<i>Posttest (Unit Test II)</i>							

LESSON OBJECTIVES

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|---|---|
| <p>Lesson 11 Completing the Square</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.11.a Complete the square in a polynomial by adding a quantity to the second or third term <input type="checkbox"/> A2.11.b Use completing the square as a means of solving a second-degree equation <input type="checkbox"/> A2.11.c Check irrational roots of a second-degree equation by using the roots to solve the equation <p>Lesson 12 Quadratic Formula</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.12.a State the quadratic formula <input type="checkbox"/> A2.12.b Use the quadratic formula to solve quadratic equations <p>Lesson 13 Discriminants</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.13.a Use the discriminant to predict the nature of the solution to a quadratic equation <p>Lesson 14 Applications Using Percent</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.14.a Calculate the result of a percentage markup on a base price <input type="checkbox"/> A2.14.b Calculate original price from percentage and markup price <input type="checkbox"/> A2.14.c Calculate the percentage of an element in a compound based on molecular weights <p>Lesson 15 Isolating One Variable</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.15.a Manipulate a formula to isolate any variable | <p>Lesson 16 Ratios</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.16.a Set up a proportion based on information about relationships between two quantities <input type="checkbox"/> A2.16.b Solve for the unknown in a proportion <p>Lesson 17 Unit Multipliers</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.17.a Create unit multipliers <input type="checkbox"/> A2.17.b Identify the correct unit multiplier to use in a given problem <input type="checkbox"/> A2.17.c Multiply by a unit multiplier to convert it from one unit to another <input type="checkbox"/> A2.17.d Identify the number of times a unit multiplier needs to be used based on whether a conversion is in one, two, or three dimensions <p>Lesson 18 Distance = Rate × Time</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.18.a Solve problems involving movement of one object or person <input type="checkbox"/> A2.18.b Solve problems involving movement of two objects or persons moving the same distance <p>Lesson 19 More Motion Problems</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.19.a Solve problems involving movement of two objects or persons moving different distances or directions |
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		Date		Test Score			Proficiency			
<i>Pretest (Unit Test III)</i>										
		LESSON PRACTICE		TEACH BACK	SYSTEMATIC REVIEW			H	Lesson Test	Test Date
		A	B		C	D	E			
20	Graphing Lines: Slope-Intercept Formula									
21	Parallel and Perpendicular Lines; Inequalities									
22	Distance Formula and Midpoint Formula									
23	Conic Sections: Circle and Ellipse									
24	Parabola									
25	Parabola: Maxima and Minima									
26	Hyperbola									
27	Solving Systems of Equations									
28	Coins, Consecutive Integers, and Mixtures									
29	Age and Boat-and-Current Problems									
30	Solving Equations with Three Variables									
31	Vectors									

		Date		Test Score			Proficiency	
<i>Posttest (Unit Test III)</i>								

LESSON OBJECTIVES

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| <p>Lesson 20 Graphing Lines: Slope-Intercept Formula</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.20.a Find the slope and y-intercept of a line graphed on the Cartesian plane <input type="checkbox"/> A2.20.b Find the slope and y-intercept of a line represented by a given equation <input type="checkbox"/> A2.20.c Give the equation of a line graphed on the Cartesian plane <input type="checkbox"/> A2.20.d Describe the equation of a line as a relationship between a dependent and an independent variable <input type="checkbox"/> A2.20.e Find the equation in slope-intercept form when given the slope and one point on a line <input type="checkbox"/> A2.20.f Find the slope when given two points on a line <input type="checkbox"/> A2.20.g Find the equation in slope-intercept form when given two points on a line | <p>Lesson 21 Parallel and Perpendicular Lines; Inequalities</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.21.a Write the equation for a line parallel to a given line, passing through a given point <input type="checkbox"/> A2.21.b Write the equation for a line perpendicular to a given line, passing through a given point <input type="checkbox"/> A2.21.c Graph any linear inequality <p>Lesson 22 Distance Formula and Midpoint Formula</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.22.a Compute the distance between two points on a graph, using the distance formula <input type="checkbox"/> A2.22.b Compute the midpoint between two points on a graph, using the midpoint formula <p>Lesson 23 Conic Sections: Circle and Ellipse</p> <ul style="list-style-type: none"> <input type="checkbox"/> A2.23.a State the center and radius of a circle, given its equation |
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Lesson 24 Parabola

- A2.24.a Plot points and sketch a parabola, given its equation
- A2.24.b Plot points and sketch a hyperbola, given its equation
- A2.24.c Estimate the coefficient of the squared term of the equation for a parabola, given its graph
- A2.24.d State the equation for a parabola, given the graph and three stated points on the parabola

Lesson 25 Parabola: Maxima and Minima

- A2.25.a Compute the axis of symmetry for any parabola, given its equation
- A2.25.b Compute the vertex of any parabola, given its equation
- A2.25.c Describe how the components of the standard form of the equation of a parabola affect the graph, in terms of geometric transformation
- A2.25.d Apply parabolas to area optimization problems

Lesson 26 Hyperbola

- A2.26.a Give an example of an inverse relationship
- A2.26.b Identify an equation of the form $xy = a$ constant as a hyperbola
- A2.26.c Identify an equation of the form $ay^2 - bx^2 = n^2$ as a hyperbola

Lesson 27 Solving Systems of Equations

- A2.27.a Graph a pair of equations when one or both are conic
- A2.27.b Find the solution of a system of linear or conic equations

Lesson 28 Coins, Consecutive Integers, and Mixtures

- A2.28.a Write a system of equations to solve coin problems
- A2.28.b Solve a system of equations representing a coin problem
- A2.28.c Write a system of equations to solve consecutive integer problems
- A2.28.d Solve a system of equations representing a consecutive integer problem
- A2.28.e Write a system of equations to solve a mixture problem
- A2.28.f Solve a system of equations representing a mixture problem

Lesson 29 Age and Boat-and-Current Problems

- A2.29.a Write an equation or system of equations to solve a problem involving age
- A2.29.b Solve equation(s) representing a problem involving age
- A2.29.c Write a system of equations to solve a boat-and-current problem
- A2.29.d Solve a system of equations representing a boat-and-current problem

Lesson 30 Solving Equations with Three Variables

- A2.30.a Solve a system of three equations

Lesson 31 Vectors

- A2.31.a Add two or more right-angle vectors