



School District of Pickens County

Building success beyond the classroom

SC Standards: Math

Math Tech II

Unit: Exponents and Exponential Functions

- Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.
- Math-EA-1.2 Connect algebra with other branches of mathematics.
- Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.
- Math-EA-1.4 Judge the reasonableness of mathematical solutions.
- Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).
- Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.
- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-2.2 Apply the laws of exponents and roots to solve problems.
- Math-EA-2.3 Carry out a procedure to perform operations (including multiplication and division) with numbers written in scientific notation.
- Math-EA-2.5 Carry out a procedure using the properties of real numbers (including commutative, associative, and distributive) to simplify expressions.
- Math-EA-2.6 Carry out a procedure to evaluate an expression by substituting a value for the variable.

Unit: Systems of Equations Inequalities

- Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.
- Math-EA-1.2 Connect algebra with other branches of mathematics.
- Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.
- Math-EA-1.4 Judge the reasonableness of mathematical solutions.
- Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).
- Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.
- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-4.10 Carry out a procedure to solve systems of two linear equations algebraically.



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Math-EA-4.9 Carry out a procedure to solve systems of two linear equations graphically.

Math-EA-5.11 Analyze given information to write a system of linear equations that models a given problem situation.

Unit: Quadratic Equations and Functions

Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.

Math-EA-1.2 Connect algebra with other branches of mathematics.

Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.

Math-EA-1.4 Judge the reasonableness of mathematical solutions.

Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).

Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.

Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).

Math-EA-2.2 Apply the laws of exponents and roots to solve problems.

Math-EA-3.5 Carry out a procedure to graph parent functions (including).

Math-EA-6.1 Analyze the effects of changing the leading coefficient a on the graph of $f(x) = ax^2 + bx + c$.

Math-EA-6.2 Analyze the effects of changing the constant c on the graph of $f(x) = ax^2 + bx + c$.

Math-EA-6.3 Analyze the graph of a quadratic function to determine its equation.

Math-EA-6.5 Carry out a graphic procedure to approximate the solutions of quadratic equations.

Math-EA-6.6 Analyze given information to determine the domain of a quadratic function in a problem situation.

Unit: Polynomials and Factoring

Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.

Math-EA-1.2 Connect algebra with other branches of mathematics.

Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.

Math-EA-1.4 Judge the reasonableness of mathematical solutions.

Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).



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- Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.
- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-2.5 Carry out a procedure using the properties of real numbers (including commutative, associative, and distributive) to simplify expressions.
- Math-EA-2.7 Carry out a procedure (including addition, subtraction, multiplication, and division by a monomial) to simplify polynomial expressions.
- Math-EA-2.8 Carry out a procedure to factor binomials, trinomials, and polynomials by using various techniques (including the greatest common factor, the difference between two squares, and quadratic trinomials).
- Math-EA-6.4 Carry out a procedure to solve quadratic equations by factoring.

Unit: Proportions, Direct and Inverse Relations, Square Roots, Matrices

- Math-EA-1.1 Communicate a knowledge of algebraic relationships by using mathematical terminology appropriately.
- Math-EA-1.2 Connect algebra with other branches of mathematics.
- Math-EA-1.3 Apply algebraic methods to solve problems in real-world contexts.
- Math-EA-1.4 Judge the reasonableness of mathematical solutions.
- Math-EA-1.5 Demonstrate an understanding of algebraic relationships by using a variety of representations (including verbal, graphic, numerical, and symbolic).
- Math-EA-1.6 Understand how algebraic relationships can be represented in concrete models, pictorial models, and diagrams.
- Math-EA-1.7 Understand how to represent algebraic relationships by using tools such as handheld computing devices, spreadsheets, and computer algebra systems (CASs).
- Math-EA-3.4 Analyze the graph of a continuous function to determine the domain and range of the function.
- Math-EA-3.5 Carry out a procedure to graph parent functions (including).
- Math-EA-3.6 Classify a variation as either direct or inverse.
- Math-EA-3.8 Apply proportional reasoning to solve problems.
- Math-EA-5.10 Analyze given information to determine the domain and range of a linear function in a problem situation.