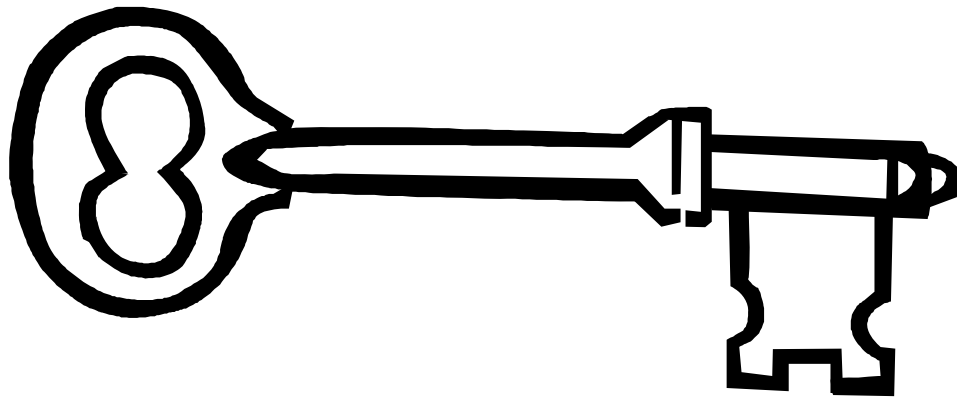


BAKERSFIELD CITY SCHOOL DISTRICT
Education Center – 1300 Baker Street
Bakersfield, California 93305

Curriculum & Standards

California Math Standards Algebra 1



Mathematics - Algebra 1

Algebra 1.0

- I can identify and use the commutative property of addition and multiplication.
- I can identify and use the associative property of addition and multiplication.
- I can identify and use the distributive property.
- I can identify and use the closure property under the operations of addition, subtraction, and multiplication.

Chapter: 1

Mathematics - Algebra 1

Algebra 1.1

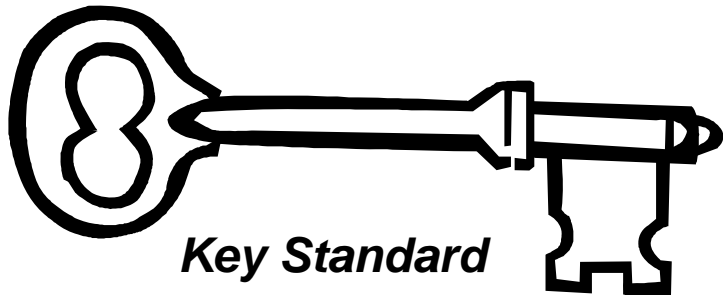
I can use the properties of numbers to determine whether or not expressions or equations are true.

Chapter: 1

Mathematics - Algebra 1

Algebra 2.0

- I can find the opposite of a number and/or variable.
- I can find the reciprocal of a number and/or variable.
- I can find the root of a number and/or variable.
- I can raise a number and/or variable to a fractional power.
- I understand and use the rules of exponents.



Chapters: 1 and 7

Student Friendly Standards – Algebra 1
BCSD Curriculum & Standard

Mathematics - Algebra 1

Algebra 3.0

- I can solve absolute value equations.
- I can solve absolute value inequalities.

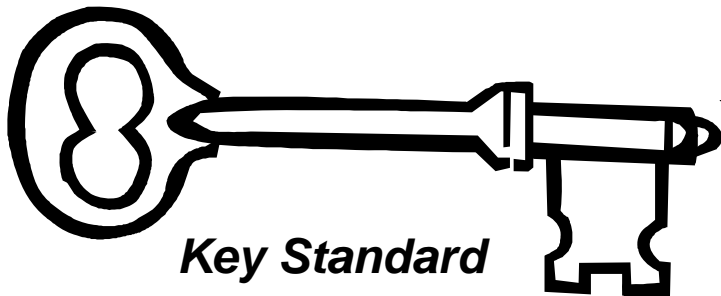
Chapters: 2 and 3

Mathematics - Algebra 1

Algebra 4.0

I can simplify expressions in equations and inequalities before I solve them.

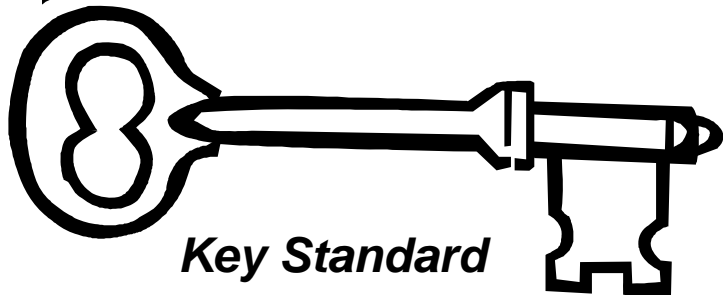
Chapters: 2 and 3



Mathematics - Algebra 1

Algebra 5.0

- I can solve multistep problems that involve linear equations and inequalities.
- I can explain my process in solving linear equations and inequalities and justify each step used.



Key Standard

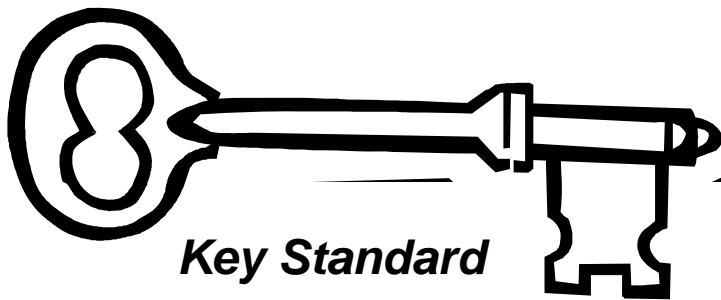
Chapters: 2 and 3

Student Friendly Standards – Algebra 1
BCSD Curriculum & Standard

Mathematics - Algebra 1

Algebra 6.0

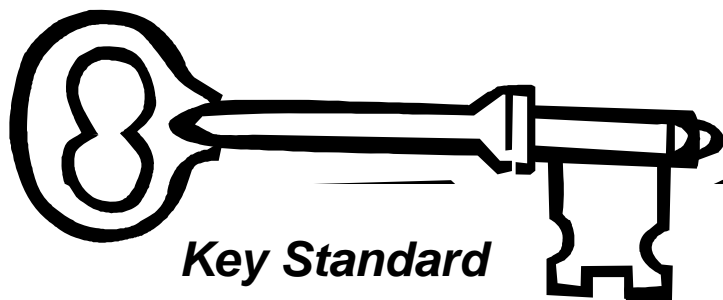
- I can graph a linear equation and find the x- and y- intercepts.
- I can sketch the region defined by linear inequalities.



Chapters: 5 and 6

Algebra 7.0

- I can verify that a point lies on a line by using the equation of the line.
- I can use the point-slope formula to write linear equations.



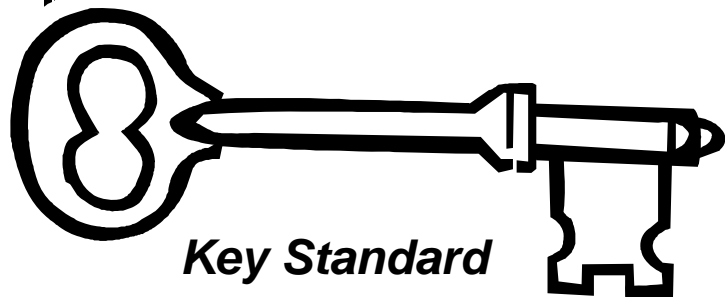
Algebra 8.0

- I know parallel lines have the same slopes.
- I know perpendicular lines have opposite, reciprocal slopes.
- I can find the equation of a line that is perpendicular to a given line and that passes through a given point.

Algebra 9.0

- I can solve a system of two linear equations that contain two variables by using different algebraic methods.
- I can graph the answer to the system of equations that I solved.

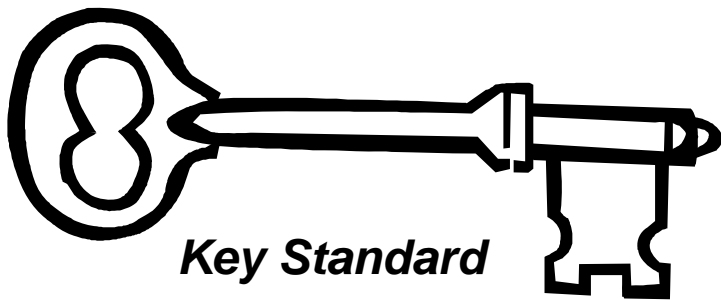
Chapter: 6



Mathematics - Algebra 1

Algebra 10.0

- I can add, subtract, multiply, and divide monomials and polynomials.
- I can solve multistep problems involving operations with monomials and polynomials.



Chapters: 7 and 10

Mathematics - Algebra 1

Algebra 11.0

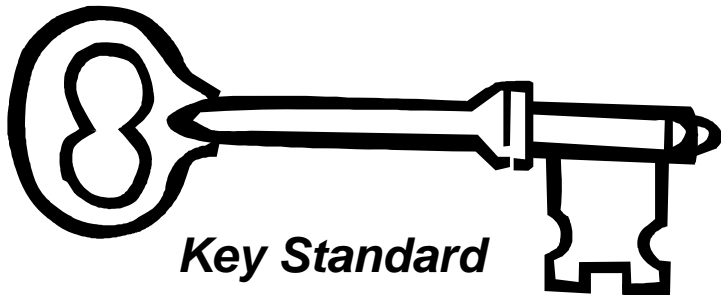
- I can find a common factor for all terms in a polynomial.
- I can recognize the difference of two squares.
- I can recognize perfect squares of binomials.

Chapter: 8

Mathematics - Algebra 1

Algebra 12.0

I can simplify fractions with polynomials in the numerator and denominator.



Key Standard

Chapter: 10

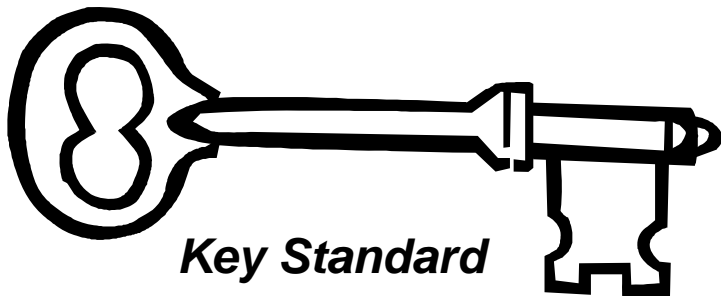
Student Friendly Standards – Algebra 1
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Mathematics - Algebra 1

Algebra 13.0

I can add, subtract, multiply, and divide rational expressions and functions that are both computationally and conceptually challenging.

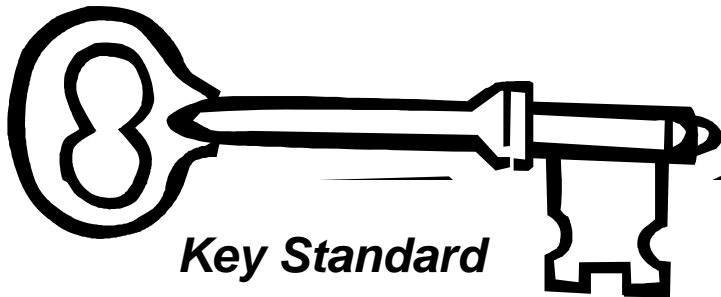
Chapter: 10



Mathematics - Algebra 1

Algebra 14.0

- I can solve quadratic equations by factoring.
- I can solve a quadratic equations by completing the square.



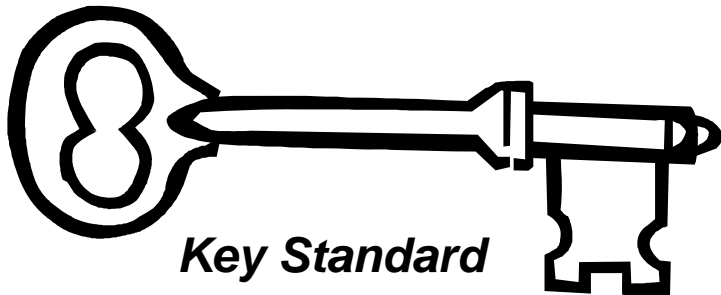
Key Standard

Chapter: 9

Mathematics - Algebra 1

Algebra 15.0

I can solve rate problems, work problems, and percent mixture problems.



Chapters: 2, 6 and 10

Student Friendly Standards – Algebra 1
BCSD Curriculum & Standard

Mathematics - Algebra 1

Algebra 16.0

- I understand the concept of a relation and a function.
- I can determine whether or not a given relation defines a function.
- I can give pertinent information about relations and functions.

Chapter: 4

Algebra 17.0

- I can determine the domain of independent variables using a graph, ordered pairs, or a symbolic expression.
- I can determine the range of dependent variables using a graph, ordered pairs, or a symbolic expression.

Mathematics - Algebra 1

Algebra 18.0

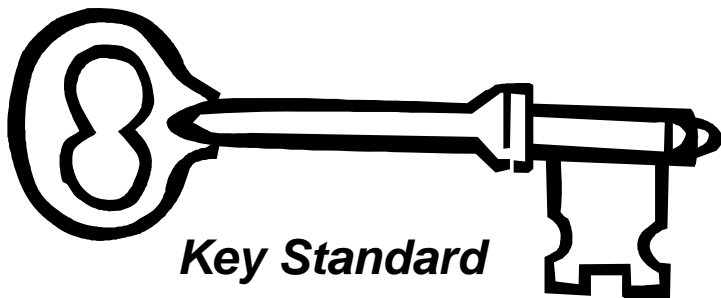
I can determine whether or not a relation is a function, and I can justify my answer.

Chapter: 4

Mathematics - Algebra 1

Algebra 19.0

- I know the quadratic formula.
- I can prove the quadratic formula is true by completing the square.



Key Standard

Chapter: 9

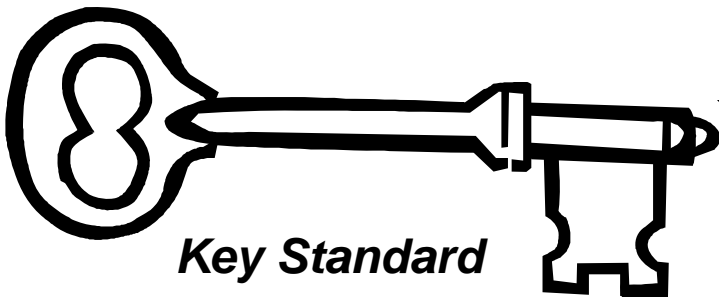
Student Friendly Standards – Algebra 1
BCSD Curriculum & Standard

Mathematics - Algebra 1

Algebra 20.0

- I can use the quadratic formula to find the roots of a second-degree polynomial.
- I can use the quadratic formula to solve quadratic equations.

Chapter: 9

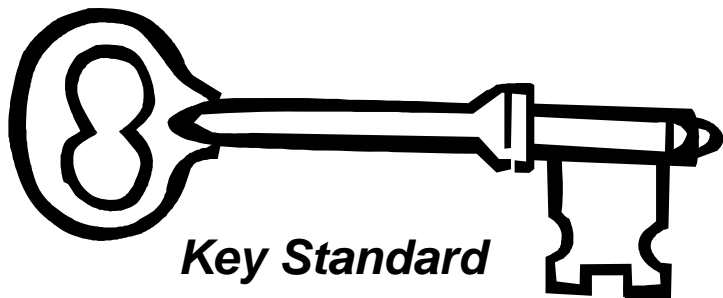


Key Standard

Mathematics - Algebra 1

Algebra 21.0

- I can graph quadratic functions.
- I know that the roots of quadratic functions are the x-intercepts of its graph.



Key Standard

Chapter: 9

Student Friendly Standards – Algebra 1
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Mathematics - Algebra 1

Algebra 22.0

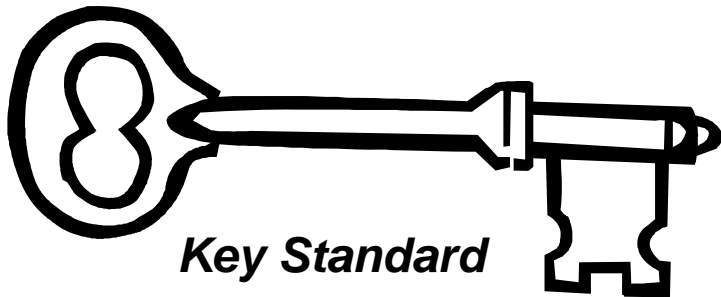
I can determine the number of times a quadratic function will intersect the x -axis (zero, one, or two) by using the quadratic formula and/or by factoring.

Chapter: 9

Mathematics - Algebra 1

Algebra 23.0

I can apply quadratic equations to physical problems, such as the motion of an object under the force of gravity.



Key Standard

Chapter: 9

Mathematics - Algebra 1

Algebra 24.1

I can identify and provide examples for the difference between inductive and deductive reasoning.

Chapters: 2, 3 and 5

Mathematics - Algebra 1

Algebra 24.2

I can identify the hypothesis and conclusion in logical deduction.

Chapter: 1

Mathematics - Algebra 1

Algebra 24.3

- I can use counterexamples to show that an assertion is false.
- I recognize I only need one counterexample to prove an assertion is false.

Chapter: 2

Mathematics - Algebra 1

Algebra 25.1

- I can use properties of numbers to prove an assertion is true.
- I can use properties of numbers to formulate a counterexample of an assertion, proving it false.

Chapters: 1, 2, 3, 5 and 8

Mathematics - Algebra 1

Algebra 25.2

- I can look at a problem that has been worked out and determine whether or not the correct number properties were used.
- I can look at a problem that has been worked out and determine whether or not the correct order of operations was used.

Chapters: 2 and 3

Mathematics - Algebra 1

Algebra 25.3

I can determine if an algebraic statement is true sometimes, always, or never.

(Algebraic statements include linear, quadratic, and absolute value expressions, equations and inequalities.)

Chapter: 2