College Algebra

Sets of Numbers

- The **natural numbers** are the set of numbers used when counting; these are the numbers $\{1, 2, 3, 4, 5, \ldots\}$.
- The **whole numbers** are the set of natural numbers and zero; these are the numbers $\{0, 1, 2, 3, 4, 5, \ldots\}$.
- The **integers** are the set of whole numbers and their opposites; these are the numbers $\{\ldots, -3, -2, -1, 0, 1, 2, 3, \ldots\}$.
- The **rational numbers** are the set of numbers that can be expressed as a fraction of two integers where the denominator is not zero. Rational numbers include the set of natural numbers, whole numbers, and integers.

  EX: $\quad -5, \dfrac{3}{4}, 0, 2, \sqrt{16}, 2\frac{1}{2}, 0.\overline{6}, 2.35$

- The **irrational numbers** are the set of numbers that cannot be expressed as a fraction of two integers.

  EX: $\quad \pi, e, \sqrt{3}, \sqrt[3]{10}$

- The **real numbers** are the set of rational numbers and irrational numbers.

  EX: $\quad -4, \pi, \dfrac{7}{8}, \sqrt{5}, \sqrt{64}, 0.125, \sqrt[3]{25}, 0.\overline{7}$

- The **imaginary numbers** are the set of square roots of negative numbers, written in the form bi, where b is a nonzero real number and $i = \sqrt{-1}$.

  EX: $\quad -5i, i, 3i, \sqrt{-9}, -\sqrt{-100}$

  - The **complex numbers** are the set of real numbers plus an imaginary number, written in the form $a + bi$, where a and b are real numbers and $i = \sqrt{-1}$.

    EX: $\quad 9 + 2i, -6 + i, -4 - 3i, 7 - 6i, 5i$

Solving Equations

When you perform the same operation to each side of an equation, the result is a new equation that has the same solution. Equations that have the same solution(s) are equivalent equations.

Using the Addition Property of Equality

The **Addition Property of Equality** states that when the same number is added to equal numbers, the sums are equal.

RULE If a, b, and c are any real numbers and $a = b$, then $a + c = b + c$.

EX: $\quad 2 + 7 = 2 + 7$

Applying this property to equations, when the same number is added to each side of an equation, the result is an equivalent equation.

EX: $\quad$ If $x - 3 = 11$, then $x - 3 + 3 = 11 + 3$, or $x = 14$.

Using the Subtraction Property of Equality

The **Subtraction Property of Equality** states that when the same number is subtracted from equal numbers, the differences are equal.

RULE If a, b, and c are any real numbers and $a = b$, then $a - c = b - c$.

EX: $\quad 12 - 8 = 12 - 8$

Applying this property to equations, when the same number is subtracted from each side of an equation, the result is an equivalent equation.

EX: $\quad$ If $y + 7 = 15$, then $y + 7 - 7 = 15 - 7$, or $y = 8$.

Using the Multiplication Property of Equality

The **Multiplication Property of Equality** states that when equal numbers are multiplied by the same number, the products are equal.

RULE If a, b, and c are any real numbers and $a = b$, then $ac = bc$.

EX: $\quad 5 \cdot 4 = 5 \cdot 4$

Applying this property to equations, when both sides of an equation are multiplied by the same real number, the result is an equivalent equation.

EX: $\quad$ If $\dfrac{x}{6} = 3$, then $\left(\dfrac{x}{6}\right)6 = (3)6$, or $x = 18$.

Using the Division Property of Equality

The **Division Property of Equality** states that when equal numbers are divided by the same nonzero number, the quotients are equal.

RULE If a, b, and c are any real numbers, $c \neq 0$, and $a = b$, then $\dfrac{a}{c} = \dfrac{b}{c}$.

EX: $\quad \dfrac{15}{5} = \dfrac{15}{5}$

Applying this property to equations, when both sides of an equation are divided by the same nonzero real number, the result is an equivalent equation.

EX: $\quad$ If $7x = 21$, then $\dfrac{7x}{7} = \dfrac{21}{7}$, or $x = 3$.

Solving Multistep Equations

Some equations require more than one inverse operation to solve. The goal when solving a multistep equation is to isolate the variable (i.e., get it by itself). To do this, use the properties of equality. If there are like terms on one side of an equation, they should be combined before using the properties.

EX: Solve the equation $5x - 3x - 1 = 15$

a. $5x - 3x - 1 = 15$	a. Original equation
b. $8x - 1 = 15$	b. Combine like terms.
c. $8x - 1 + 1 = 15 + 1$	c. Use the Addition Property of Equality to undo the subtraction and isolate the variable term.
d. $8x = 16$	d. Simplify.
e. $\dfrac{8x}{8} = \dfrac{16}{8}$	e. Use the Division Property of Equality to undo the multiplication and isolate the variable.
f. $x = 2$	f. Simplify.

Variables on Both Sides

When an equation has variables on both sides, the objective is to get all variable terms on the same side of the equation by using either the Addition or Subtraction Property of Equality.

EX: Solve the equation $6m - 8 = 2m$

a. $6m - 8 = 2m$	a. Original equation
b. $6m - 2m - 8 = 2m - 2m$	b. Use the Subtraction Property of Equality to move the variable term to one side.
c. $4m - 8 = 0$	c. Simplify.
d. $4m - 8 + 8 = 0 + 8$	d. Use the Addition Property of Equality to isolate the variable term.
e. $4m = 8$	e. Simplify.
f. $\dfrac{4m}{4} = \dfrac{8}{4}$	f. Use the Division Property of Equality to isolate the variable.
g. $m = 2$	g. Simplify.

Solving Absolute Value Equations

The **absolute value** of a number is its distance from zero on the number line. Therefore, the equation $|x| = 4$ has two solutions, 4 and -4, since both have a distance of 4 units from zero on the number line.

To solve an equation $|a| = b$, where b is a positive number, solve the disjunction $a = b$ or $a = -b$.

EX: Solve the equation $|x + 7| = 3$.

a. $\|x + 7\| = 3$	a. Original equation.
b. $x + 7 = 3$ or $x + 7 = -3$	b. Write as a disjunction.
c. $x + 7 - 7 = 3 - 7$ or $x + 7 - 7 = -3 - 7$	c. Use the Subtraction Property of Equality on both equations to isolate the variable.
d. $x = -4$ or $x = -10$	d. Simplify.

Solving Inequalities

An **inequality** shows the relationship between two numbers or expressions. The solution of an inequality is the set of numbers that make the inequality true.

Addition & Subtraction Properties

The **Addition and Subtraction Properties of Inequality** state that adding or subtracting the same number on each side of an inequality produces an equivalent inequality. If a, b, and c are real numbers, then the following are true:

Addition Property of Inequality: If $a > b$, then $a + c > b + c$; if $a < b$, then $a + c < b + c$.

Subtraction Property of Inequality: If $a > b$, then $a - c > b - c$; if $a < b$, then $a - c < b - c$.

Note that similar statements hold true for $\geq$ and $\leq$.

NUMERIC EXAMPLES

Addition Property of Inequality: Since $4 > 2$, then $4 + 1 > 2 + 1$; since $3 < 5$, then $3 + 6 < 5 + 6$.

Subtraction Property of Inequality: Since $9 > 2$, then $9 - 1 > 2 - 1$; since $4 < 7$, then $4 - 2 < 7 - 2$.

ALGEBRAIC EXAMPLES

Addition Property of Inequality: If $p - 3 < 11$, then $p - 3 + 3 < 11 + 3$, or $p < 14$.

Subtraction Property of Inequality: If $x + 9 > 16$, then $x + 9 - 9 > 16 - 9$, or $x > 7$.

Multiplication & Division Properties

The **Multiplication and Division Properties of Inequality** state that multiplying or dividing each side of an inequality by a positive number makes an equivalent inequality. These properties also state that multiplying or dividing each side of an inequality by a negative number and reversing the direction of the inequality symbol make an equivalent inequality.

Given a, b, and c are real numbers:

Where c is positive	Where c is negative
If $a < b$, then $ac < bc$.	If $a < b$, then $ac > bc$.
If $a > b$, then $ac > bc$.	If $a > b$, then $ac < bc$.

Note that similar statements hold true for $\geq$ and $\leq$.

NUMERIC EXAMPLES

Multiplication Property of Inequality:

Since $2 < 5$, then $2 \cdot 3 < 5 \cdot 3$; since $2 < 5$, then $2 \cdot (-3) > 5 \cdot (-3)$.

Since $6 > 4$, then $6 \cdot 4 > 4 \cdot 4$; since $6 > 4$, then $6 \cdot (-4) < 4 \cdot (-4)$.

Division Property of Inequality:

Since $4 < 6$, then $\dfrac{4}{2} < \dfrac{6}{2}$; since $4 < 6$, then $\dfrac{4}{-2} > \dfrac{6}{-2}$.

Since $9 > 3$, then $\dfrac{9}{3} > \dfrac{3}{3}$; since $9 > 3$, then $\dfrac{9}{-3} < \dfrac{3}{-3}$.

Algebra Quick Study Guide

S. B. Kizlik

Algebra Quick Study Guide:

Pre-Algebra S. B. Kizlik,2002-11-27 Boost grades and the understanding of early algebra concepts that can make or break the long term study of algebra through middle and high school and on to college Textbooks and classes cover so much over months at a time that the details at different stages of learning are passed up with expectations of students remembering all the details of every stage of learning This 6 page laminated reference guide is expertly authored and designed to offer a quick detailed overview of all stages of early algebra learning So all concepts can be seen at a glance before reading texts or listening to instructors during study and homework or further into the class for refreshing before quizzes and exams It can help the math rusty parent homework coach as well to get the algebra gears turning again so you can be the homework hero Topics covered include Number Systems Operations Algebra Concepts Translating Words into Algebraic Statements Algebraic Equations Algebraic Inequalities Coordinate Plane Geometry Ratio Portion Percent **Intermediate Algebra** Expolog LLC,2020-05 In college or college bound the importance of algebra in an academic career is so large it can determine your future path and college major This solid prerequisite course can pave the way for better grades throughout school whether math is second nature or a challenge and in either case this is your go to reference for answers at your fingertips all in 6 durably laminated pages The math experts at ExpoLog who write and edit for textbook publishing companies and who have authored many best selling and highly reviewed QuickStudy math guides authored the targeted content that is the backbone of support you need at a price lower than any college level study tool you will find anywhere making it easy to add this guide to your college success toolbox 6 page laminated guide includes Relations Functions Relations Functions Rational Radical Expressions Simplifying Rational Expressions Operations with Rational Expressions Complex Fractions Radical Expressions Polynomials Definitions Operations with Polynomials Solving Equations Inequalities Linear Inequalities Systems of Equations Other Topics in Intermediate Algebra Complex Numbers **College Algebra Equations and Answers** BarCharts, Inc,Expolog, LLC,Ken Yablonski,2018-11 In college or college bound the importance of the Algebra struggle is real Whether math is second nature or a challenge this guide is your go to for answers at your fingertips This 6 page comprehensive guide offers clear and concise examples explanations and the graphs that go with them for review study or to quickly look up that concept that eludes you For some students algebra is just the beginning of their college math career others just need to make the grade QuickStudy guides have proven their support of students and better grades at all levels for more than 25 years Boost confidence for tests and grades for future success 6 page laminated guide includes Sets of Numbers Equations Inequalities Linear Equations Absolute Value Equations Quadratic Equations Solving Systems of Equations Functions Domain Range Operations with Functions Inverses Polynomials Radicals Rational Functions Direct Joint Inverse Variation Solving Rational Equations Inequalities Exponential Functions Logarithmic Functions **Algebra Part 1** Kizlik,BarCharts, Inc,2002-11-11 For a subject that is a challenge at all levels of education this chart

covers principles for basic algebra intermediate algebra and college algebra courses   Quick Algebra Review Peter H. Selby,1983   Algebra Part 1 S. B. Kizlik,Expolog, LLC,2025 Over 1 million sold to college and high school students supporting better test scores grades and improved skills a best selling reference for over 25 years As a college student or being college bound the importance of algebra in a student s academic career is so large it can determine your future path Whether math is second nature or a challenge this guide is your go to for answers at your fingertips covering the need to know facts you normally have to search hundreds of pages of a textbook or website to find 6 pages and durably laminated it is filled with clear and concise rules terminology example equations and explanations for review study or to quickly look up that concept you just can t remember Author and math expert Sandy Kizlik and the developers at ExpoLog who write and edit for textbook publishing companies target content that is the backbone of support you need which we offer at a price lower than any college level study tool you will find anywhere making it easy to add it to your college success toolbox A good grade could be critical for a higher grade point average for some students or Algebra could be the gateway to a person s career This best selling guide combined with QuickStudy s Algebra Part 1 has helped many accomplish both 6 page laminated guide includes Set Theory Notation Operations Properties Properties of Real Numbers Operations with Real Numbers Algebraic Terms Combining Like Terms Multiplying Dividing Steps for Solving a First Degree Equation with One Variable Steps for Solving a First Degree Inequality with One Variable Order of Operations Factoring First Step GCF Second Step Categorize Factor Special Factoring Hints Trinomials Binomials Perfect Cubes Rational Expressions Definition Basics Operations Complex Fractions Synthetic Division Roots Radicals Basics Rules Simplifying Radical Expressions Rational Expressions in Equations Radical Operations Radical Expressions in Equations Quadratic Equations Complex Numbers   **Algebra Fundamentals Quizzer** Peggy Warren,2011-05-31 Get a leg up on the basics of algebra with this special 3 panel Quizzers version of our popular Algebra Fundamentals guide Not only can you find the same algebraic definitions tips and example problems as featured in the previous version there are now practice questions to answer and problems to solve so that you can keep on the right track It all adds up to greater understanding and better grades   Algebra S. B. Kizlik,2006-11-30 Essence of the course problems answers formulas equations full color graphics Cover   **Prepare for the CLEP College Algebra Test in 7 Days** Reza Nazari,Ava Ross,2019-08-31 This book is your ticket to ace the CLEP College Algebra Test Prepare for the CLEP College Algebra Test in 7 Days which reflects the 2019 and 2020 test guidelines and topics incorporates the best method and the right strategies to help you hone your math skills overcome your exam anxiety and boost your confidence and do your best to defeat CLEP College Algebra test quickly This quick study guide contains only the most important and critical Algebra concepts a student will need in order to succeed on the CLEP College Algebra test Algebra concepts in this book break down the topics so the material can be quickly grasped Examples are worked step by step to help you learn exactly what to do This CLEP College Algebra new edition has been updated to duplicate questions

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