

Sets of Numbers

- The **natural numbers** are the set of numbers used when counting; these are the numbers $\{1, 2, 3, 4, 5, \dots\}$.
- The **whole numbers** are the set of natural numbers and zero; these are the numbers $\{0, 1, 2, 3, 4, 5, \dots\}$.
- The **integers** are the set of whole numbers and their opposites; these are the numbers $\{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$.
- 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: $-5, \frac{3}{4}, 0, 2, \sqrt{16}, 2\frac{1}{2}, 0.6, 2.35$

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

EX: $\pi, e, \sqrt{5}, \sqrt[3]{10}$

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

EX: $-4, \pi, \frac{7}{8}, \sqrt{5}, \sqrt{64}, 0.125, \sqrt[3]{25}, 0.7$

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

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



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: $2 + 7 = 2 + 7$

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

EX: 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: $12 - 8 = 12 - 8$

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

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

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: If $\frac{x}{6} = 3$, then $\left(\frac{x}{6}\right)6 = (3)6$, 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 $\frac{a}{c} = \frac{b}{c}$.

EX: $\frac{15}{3} = \frac{15}{3}$

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: If $7x = 21$, then $\frac{7x}{7} = \frac{21}{7}$, 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 $5x + 3x - 1 = 15$

- $5x + 3x - 1 = 15$
- $8x - 1 = 15$
- $8x - 1 + 1 = 15 + 1$
- $8x = 16$
- $\frac{8x}{8} = \frac{16}{8}$
- $x = 2$

- Original equation
- Combine like terms.
- Use the Addition Property of Equality to undo the subtraction and isolate the variable term.
- Simplify.
- Use the Division Property of Equality to undo the multiplication and isolate the variable.
- 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 $6m - 8 = 2m - 2m$

- $6m - 8 = 2m$
- $6m - 2m - 8 = 2m - 2m$
- $4m - 8 = 0$
- $4m - 8 + 8 = 0 + 8$
- $4m = 8$
- $\frac{4m}{4} = \frac{8}{4}$
- $m = 2$

- Original equation
- Use the Subtraction Property of Equality to move the variable term to one side.
- Simplify.
- Use the Addition Property of Equality to isolate the variable term.
- Simplify.
- Use the Division Property of Equality to isolate the variable.
- 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 $|x| = b$, where b is a positive number, solve the disjunction $x = b$ or $x = -b$.

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

- $|x + 7| = 3$
- $x + 7 = 3$ or $x + 7 = -3$
- $x + 7 - 7 = 3 - 7$ or $x + 7 - 7 = -3 - 7$
- $x = -4$ or $x = -10$

- Original equation
- Write as a disjunction.
- Use the Subtraction Property of Equality on both equations to isolate the variable.
- 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 $2 \cdot 3 < 5 \cdot 3 = 15$; since $2 < 5$, then $2 \cdot (-3) > 5 \cdot (-3)$.

Division Property of Inequality: Since $6 > 4$, then $6 \div 2 > 4 \div 2 = 2$; since $6 > 4$, then $6 \div (-2) < 4 \div (-2)$.

Division Property of Inequality: Since $4 < 6$, then $\frac{4}{2} < \frac{6}{2}$; since $4 < 6$, then $\frac{4}{-2} > \frac{6}{-2}$.

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

College Algebra Study Guide

Siddappa N.Byrareddy



College Algebra Study Guide:

CLEP College Algebra Study Guide 2020 - 2021 Reza Nazari,2020-07-02 A Perfect book to help you prepare for the CLEP College Algebra Test CLEP College Algebra Study Guide which reflects the 2020 2021 test guidelines is designed by top College Algebra instructors and test prep experts to help test takers succeed on the CLEP College Algebra Test The updated version of this comprehensive CLEP College Algebra preparation book includes Math lessons extensive exercises sample College Algebra questions and quizzes with answers and detailed solutions to help you hone your math skills overcome your exam anxiety boost your confidence and do your best to ace the CLEP College Algebra exam on test day Upon completion of this perfect CLEP College Algebra prep book you will have a solid foundation and sufficient practice to ace the CLEP College Algebra test Not only does this all inclusive prep book offer everything you will ever need to prepare for the CLEP College Algebra test but it also contains two complete and realistic CLEP College Algebra tests that reflect the format and question types on the CLEP College Algebra to help you check your exam readiness and identify where you need more practice CLEP College Algebra Study Guide contains many exciting and unique features to help you prepare for the CLEP College Algebra test including Content 100% aligned with the 2020 CLEP College Algebra test Written by CLEP College Algebra instructors and test experts Complete coverage of all CLEP College Algebra concepts and topics which you will be tested Step by step guide for all CLEP College Algebra topics Abundant Math skill building exercises to help test takers approach different question types that might be unfamiliar to them Exercises on different College Algebra topics such as integers percent equations polynomials exponents and radicals 2 full length practice tests featuring new question types with detailed answers This CLEP College Algebra prep book and other Effortless Math Education books are used by thousands of students each year to help them review core content areas brush up in math discover their strengths and weaknesses and achieve their best scores on the CLEP College Algebra test Ideal for self study and classroom usage Visit www.EffortlessMath.com for Online Math Practice *College Algebra* ,2022 This study guide has informational study material sample test questions and flash cards to help prepare for the CLEP College Algebra exam [College Algebra CLEP Test Study Guide](#) Passyourclass,2022-02-04 2022 Edition Our CLEP study guides are different The College Algebra CLEP study guide TEACHES you what you need to know to pass the CLEP test This study guide is more than just pages of sample test questions Our easy to understand study guide will TEACH you the information We ve condensed what you need to know into a manageable book one that will leave you completely prepared to tackle the test This study guide includes sample test questions that will test your knowledge AND teach you new material Your College Algebra CLEP study guide also includes flashcards that are bound into the back of the book Use these to memorize key concepts and terms Anyone can take and pass a CLEP test What are you waiting for Testimonial Thank you so much for your College Algebra CLEP book It cut out the nonsense I ve seen in some of the other books and showed me what I needed to know I purchased it several months ago lost

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This book delves into College Algebra Study Guide. College Algebra Study Guide is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into College Algebra Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to College Algebra Study Guide
- Chapter 2: Essential Elements of College Algebra Study Guide
- Chapter 3: College Algebra Study Guide in Everyday Life
- Chapter 4: College Algebra Study Guide in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of College Algebra Study Guide. The first chapter will explore what College Algebra Study Guide is, why College Algebra Study Guide is vital, and how to effectively learn about College Algebra Study Guide.

3. In chapter 2, this book will delve into the foundational concepts of College Algebra Study Guide. The second chapter will elucidate the essential principles that must be understood to grasp College Algebra Study Guide in its entirety.

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5. In chapter 4, this book will scrutinize the relevance of College Algebra Study Guide in specific contexts. This chapter will explore how College Algebra Study Guide is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about College Algebra Study Guide. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of College Algebra Study Guide.

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