



ALGEBRA - Part 1

PART 1 & 2 COMBINED COVER PRINCIPLES FOR BASIC, INTERMEDIATE AND COLLEGE COURSES

SET THEORY

NOTATION

- [] braces indicate the beginning and end of a set notation; when placed around an individual must be separated by commas. EX: $A = \{2, 5, 8, 14\}$; sets are finite (ending, or having a last element) unless otherwise indicated.
- ... indicates continuation of a pattern. EX: $B = \{2, 4, 6, 8, \dots, 98, 100\}$
- \in or the small inclusion or infinite set, that is, a set with no last element. EX: $C = \{2, 4, 6, 8, 12, \dots\}$
- \subset is a symbol which usually means "such that."
- \in means "is a member of" OR "is an element of." EX: If $A = \{2, 4, 6, 12\}$ then $12 \in A$ because 12 is in set A .
- \notin means "is not a member of" OR "is not an element of." EX: If $B = \{2, 4, 6, 8\}$ then $20 \notin B$ because 20 is not in set B .
- \emptyset means empty set OR null set, a set containing no elements or members, but which is a subset of all sets, often written as $\{\}$.
- \cup means "is a union of;" also may be written as \vee .
- \cap means "is an intersection;" also may be written as \wedge .
- $A \subset B$ indicates that every element of set A is also an element of set B . EX: If $A = \{2, 4\}$ and $B = \{2, 3, 5, 6, 7, 9\}$ then $A \subset B$ because 2 and 4 which are in set A are also in set B .
- n is the number of elements of a set which is equal to the number of elements in that set. EX: If $A = \{2, 4, 6\}$ then set A has 3 elements; hence $n(A) = 3$.

OPERATIONS

- \cup means union.
- $A \cup B$ indicates that union of set A with set B ; every element of this set is either an element of set A OR an element of set B ; that is, to form the union of two sets, put all of the elements of both sets together into one set making sure not to write any element more than once. EX: If $A = \{2, 4\}$ and $B = \{4, 6, 14\}$ then $A \cup B = \{2, 4, 6, 14\}$.
- \cap means intersection.
- $A \cap B$ indicates the intersection of set A with set B ; every element of this set is also an element of BOTH set A and set B ; that is, to form the intersection of two sets, list only those elements which are found in BOTH of the two sets. EX: If $A = \{2, 4\}$ and $B = \{4, 6, 14\}$ then $A \cap B = \{4\}$.
- \bar{A} indicates the complement of set A ; that is, all elements in the universal set which are NOT in set A . EX: If the universal set is the set of integers and $A = \{0, 1, 2, 3, \dots\}$ then $\bar{A} = \{-1, -2, -3, -4, \dots\}$. $A \cap \bar{A} = \emptyset$.

PROPERTIES

- $A = B$ means all of the elements in set A are also in set B and all elements in set B are also in set A , although they do not have to be in the same order. EX: If $A = \{2, 10\}$ and $B = \{10, 2\}$ then $A = B$.
- $n(A)$ indicates the number of elements in set A . EX: If $A = \{2, 4, 6\}$ then $n(A) = 3$.
- n means "the number of;" that is, set A and set B have the same number of elements although the elements themselves may or may not be the same. EX: If $A = \{2, 4, 6\}$ and $B = \{8, 12, 16\}$ then $A \sim B$ because $n(A) = 3$ and $n(B) = 3$.
- $A \cap B = \emptyset$ indicates disjoint sets which have no elements in common.

SETS OF NUMBERS

- Natural or Counting numbers = $\{1, 2, 3, 4, 5, \dots, 11, 12, \dots\}$
- Whole numbers = $\{0, 1, 2, 3, \dots, 10, 11, 12, 13, \dots\}$
- Integers = $\{1, -1, -2, -3, 0, 1, 2, 3, 4, \dots\}$
- Rational numbers = $\{p/q\}$ p and q are integers, $q \neq 0$; the sets of Natural numbers, Whole numbers, and Integers, as well as numbers which can be written as proper or improper fractions, are all subsets of the set of Rational numbers.
- Irrational numbers = $\{x \mid x \text{ is a Real number but is not a Rational number}\}$; the sets of Rational numbers and Irrational numbers have no elements in common and are therefore disjoint sets.
 - Real numbers = $\{x \mid x \text{ is the union of a proper or a number line}\}$; the union of the set of Rational numbers with the set of Irrational numbers equals the set of Real numbers.
 - Imaginary numbers = $\{if\}$ i is a Real number and f is the number which appears in -1 ; if $f = -1$, the sets of Real numbers and Imaginary numbers have no elements in common and are therefore disjoint sets.
- Complex numbers = $\{a + bi\}$ a and b are Real numbers and i is the number whose square is -1 ; the set of Real numbers and the set of Imaginary numbers are both subsets of the set of Complex numbers. EX: $A = 7i$ $i^2 = -1$

PROPERTIES OF REAL NUMBERS

FOR ANY REAL NUMBERS a, b, c AND d

| PROPERTY | ALGEBRAIC | VERBAL |
|-------------|---|---|
| Closure | $a + b$ is a Real number | ab is a Real number |
| Commutative | $a + b = b + a$ | $ab = ba$ |
| Associative | $(a + b) + c = a + (b + c)$ | $(ab)c = a(bc)$ |
| Identity | $a + 0 = 0 + a = a$ $a \cdot 1 = 1 \cdot a = a$ | $a + 0 = 0 + a = a$ $a \cdot 1 = 1 \cdot a = a$ |
| Inverse | $a + (-a) = 0$ and $0 + a = a$ $a \cdot (1/a) = 1$ and $1 \cdot a = a$ | $a + (-a) = 0$ and $0 + a = a$ $a \cdot (1/a) = 1$ and $1 \cdot a = a$ |

Distributive Property: $a(b + c) = ab + ac$ and $(a + b)c = ac + bc$

PROPERTIES OF EQUALITY

FOR ANY REAL NUMBERS a, b, c AND d

- Reflexive: $a = a$
- Symmetric: If $a = b$ then $b = a$
- Transitive: If $a = b$ and $b = c$ then $a = c$
- Additive Property: If $a = b$ then $a + c = b + c$
- Multiplicative Property: If $a = b$ then $ac = bc$
- Multiplicative Property of Zero: $a \cdot 0 = 0$ and $0 \cdot a = 0$
- Double Negative Property: $-(-a) = a$

PROPERTIES OF INEQUALITY

FOR ANY REAL NUMBERS a, b, c AND d

- Transitive: Other: If $a < b$ and $b < c$ then $a < c$
- Reflexive: If $a < b$ and $b < a$ then $a < a$
- Additive Property of Inequality: If $a < b$ then $a + c < b + c$
- Multiplicative Property of Inequality: If $a < b$ then $ac < bc$ and $a > b$ then $ac > bc$ if $c > 0$ and $a < b$ then $ac > bc$ if $c < 0$
- Double Negative Property: If $a < b$ then $-a > -b$

OPERATIONS OF REAL NUMBERS

ABSOLUTE VALUE

$|a|$ is a if a is a positive number; $|a| = -a$ if a is a negative number; that is, the distance of a from 0 on a number line is the absolute value of a . EX: $|5| = 5$, $|-4| = 4$, $|10| = 10$, $|0| = 0$, $|-45| = -(-45) = 45$

ADDITION

If the signs of the numbers are the same, add the absolute values of the numbers; the sign of the answer is the same as the sign of the original two numbers. EX: $-12 + -5 = -17$ and $14 + 20 = 34$

If the signs of the numbers are different, subtract the absolute values of the numbers; the answer has the same sign as the number with the larger absolute value. EX: $-14 + 4 = -10$ and $-2 + 18 = 16$

SUBTRACTION

$a - b = a + (-b)$; subtraction is changed to addition of the opposite number; that is, change the sign of the second number and follow the rules of addition; never change the sign of the first number; since b is the number in back of the subtraction sign which is being subtracted; $18 - 4 = 14$ or $-18 - -4 = -14$

EX: $15 - 42 = 27$ or $-15 - -42 = -27$; $-34 - 5 = -39$ or $-34 - -5 = -29$; $-13 - -45 = -32$ or $-13 + 45 = 32$; $-62 - -28 = -34$ or $-62 + 28 = -34$

MULTIPLICATION

The product of two numbers which have the same signs is positive. EX: $(3)(4) = 12$; $(-3)(-4) = 12$; $(-3)(4) = -12$; $(3)(-4) = -12$

The product of two numbers which have different signs is negative or minus which number is larger. EX: $(3)(4) = 12$; $(-3)(4) = -12$; $(3)(-4) = -12$; $(-3)(-4) = 12$

DIVISION

UNKNOWN DO NOT DIVIDE BY ZERO

The quotient of two numbers which have the same sign is positive. EX: $(3 - 14) / (-7) = 2$; $(-45) / (-15) = 3$; $(-4) / (-8) = .5$

The quotient of two numbers which have different signs is negative or minus which number is larger. EX: $(-24) / (8) = -3$; $(88) / (-8) = -11$; $(-14) / (-56) = .25$

DOUBLE NEGATIVE

$-(-a) = a$; that is, the negative sign changes the sign of the number of the number. EX: $-(-4) = 4$; $-(-17) = 17$

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Table of Contents Algebra Part 1 Quickstudy Academic

1. Understanding the eBook Algebra Part 1 Quickstudy Academic
 - The Rise of Digital Reading Algebra Part 1 Quickstudy Academic
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra Part 1 Quickstudy Academic
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Algebra Part 1 Quickstudy Academic
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra Part 1 Quickstudy Academic
 - Personalized Recommendations
 - Algebra Part 1 Quickstudy Academic User Reviews and Ratings
 - Algebra Part 1 Quickstudy Academic and Bestseller Lists

5. Accessing Algebra Part 1 Quickstudy Academic Free and Paid eBooks
 - Algebra Part 1 Quickstudy Academic Public Domain eBooks
 - Algebra Part 1 Quickstudy Academic eBook Subscription Services
 - Algebra Part 1 Quickstudy Academic Budget-Friendly Options
6. Navigating Algebra Part 1 Quickstudy Academic eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra Part 1 Quickstudy Academic Compatibility with Devices
 - Algebra Part 1 Quickstudy Academic Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra Part 1 Quickstudy Academic
 - Highlighting and Note-Taking Algebra Part 1 Quickstudy Academic
 - Interactive Elements Algebra Part 1 Quickstudy Academic
8. Staying Engaged with Algebra Part 1 Quickstudy Academic
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra Part 1 Quickstudy Academic
9. Balancing eBooks and Physical Books Algebra Part 1 Quickstudy Academic
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra Part 1 Quickstudy Academic
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra Part 1 Quickstudy Academic
 - Setting Reading Goals Algebra Part 1 Quickstudy Academic
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra Part 1 Quickstudy Academic
 - Fact-Checking eBook Content of Algebra Part 1 Quickstudy Academic
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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