

ALGEBRA - Part 1

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

SET THEORY

NOTATION

- $\{ \}$ braces indicate the beginning and end of a set notation; when listed, elements or members must be separated by commas. EX: $A = \{4, 8, 16\}$; sets are finite (ending, or having a last element) unless otherwise indicated.
- $\dots$ indicates continuation of a pattern. EX: $B = \{5, 10, 15, \dots, 80, 90\}$
- $\in$ on the left indicates an element set; that is, a set with one last element. EX: $C = \{3, 6, 9, 12, \dots\}$
- $\ni$ is a symbol which literally means "such that."
- $\in$ means "is a member of" OR "is an element of." EX: If $A = \{4, 8, 12\}$, 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 $B = \{3, 4, 8\}$, then $3 \notin B$ because 3 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; also written as $\{ \}$.
- $\subset$ means "is a subset of"; also may be written as $\subseteq$.
- $\not\subset$ means "is not a subset of"; also may be written as $\not\subseteq$.
- $A \cap B$ indicates that every element of set A is also an element of set B. EX: If $A = \{1, 4\}$ and $B = \{1, 3, 5, 6, 7, 9\}$, then $A \cap B$ because the 1 and 4 which are in set A are also in set B.
- n is the number of subsets of a set when n equals the number of elements in the set. EX: If $A = \{4, 8, 16\}$, then set A has 8 subsets because A has 3 elements and $2^3 = 8$.

OPERATIONS

- $\cup$ means union.
- $A \cup B$ indicates the 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 count any element more than once. EX: If $A = \{1, 4\}$ and $B = \{4, 8, 16\}$, then $A \cup B = \{1, 4, 8, 16\}$.
- $A \cap B$ 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 $A = \{1, 4\}$ and $B = \{4, 8, 16\}$, then $A \cap B = \{4\}$.
- A^c 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 $A = \{10, 1, 2, 3, \dots\}$, then $A^c = \{1, -2, -3, -4, \dots\}$ and $A \cap A^c = \emptyset$.

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 $A = \{5, 10\}$ and $B = \{10, 5\}$, then $A = B$.
- $n(A)$ indicates the number of elements in set A. EX: If $A = \{2, 4, 6\}$, then $n(A) = 3$.
- $a \sim b$ means "is equivalent to"; 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 $B = \{10, 12, 18\}$, 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 = $\{1, 2, 3, 4, 5, \dots, 81, 82, \dots\}$
- Whole numbers = $\{0, 1, 2, 3, \dots, 10, 15, 12, 15, \dots\}$
- Integers = $\{\dots, -4, -3, -2, -1, 0, 1, 2, 3, 4, \dots\}$
- Rational numbers = $\{ \frac{p}{q} \mid p \text{ and } q \text{ are integers, } q \neq 0 \}$; the sets of Rational 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 = $\{x \mid x \text{ is the coordinate of a point on a number line}\}$; the union of the set of Rational numbers with the set of Irrational numbers equals the set of Real numbers.
- Imaginary numbers = $\{ \sqrt{-1} \mid x \text{ is a Real number and } i \text{ is the number whose square is } -1\}$; $i^2 = -1$; the sets of Real numbers and Imaginary numbers have no elements in common and are, therefore, disjoint sets.
- Complex numbers = $\{a + bi \mid a \text{ and } b \text{ are Real numbers and } i \text{ is the number whose square is } -1\}$; the set of Real numbers and the set of Imaginary numbers are both subsets of the set of Complex numbers. EX: $4 + 7i, 3 - 2i$

PROPERTIES OF REAL NUMBERS

PROPERTIES OF REAL NUMBERS

FOR ANY REAL NUMBERS a, b & c

PROPERTY	FOR ADDITION	FOR MULTIPLICATION
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	$a + 0 = a$ and $0 + a = a$	$a(1) = a$ and $1(a) = a$
Inverse	$a + (-a) = 0$ and $a(-1) = -a$	$a(1/a) = 1$ and $(1/a)a = 1$ if $a \neq 0$
Distributive Property	$a(b + c) = ab + ac$	$a(bc) = (ab)c$

PROPERTIES OF EQUALITY

FOR ANY REAL NUMBERS a, b & c

Reflexive	$a = a$
Symmetric	If $a = b$, then $b = a$
Transitive	If $a = b$ and $b = c$, then $a = c$
Addition Property	If $a = b$, then $a + c = b + c$
Multiplication Property	If $a = b$, then $ac = bc$
Multiplication 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

Trichotomy	Either $a < b$, or $a = b$, or $a > b$
Transitive	If $a < b$, and $b < c$, then $a < c$
Addition Property of Inequality	If $a < b$, then $a + c < b + c$
Multiplication Property of Inequality	If $a < b$ and $c > 0$, and $a < b$, then $ac < bc$; also, if $a < b$, then $ac > bc$ if $c < 0$ and $a < b$, then $ac > bc$; also, if $a < b$, then $ac < bc$

OPERATIONS OF REAL NUMBERS

ABSOLUTE VALUE

$|a| = a$ if a is zero or a positive number; $|a| = -a$ if a is a negative number; that is, the absolute value of a number is always positive or a number from zero on the number line is the absolute value of that number.

$$\text{EX: } |-4| = -(-4) = 4, |20| = 20, |0| = 0, |-43| = -(-43) = 43$$

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.

$$\text{EX: } -11 + -5 = -16 \text{ and } 15 + 20 = 35$$

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.

$$\text{EX: } -14 + 4 = -10 \text{ and } -3 + 10 = 7$$

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 it is the number in back of the subtraction sign which is being subtracted). $14 - 4 = 14 + (-4) = 10$

$$\text{EX: } 17 - 42 = 17 + (-42) = -25, -24 - 8 = -24 + (-8) = -32, 13 - (-45) = 13 + (+45) = 58, -62 - (-20) = -62 + (+20) = -42$$

MULTIPLICATION

The product of two numbers which have the same signs is positive.

$$\text{EX: } (55)(3) = 165, (-30)(-4) = 120, (-5)(-12) = 60$$

The product of two numbers which have different signs is negative; no matter which number is larger. EX: $(-3)(70) = -210, (2)(-40) = -80, (5)(-3) = -15$

DIVISION

(DIVISORS DO NOT EQUAL ZERO)

The quotient of two numbers which have the same signs is positive.

$$\text{EX: } (-14)(-7) = 98, (44)(11) = 484, (-4)(-8) = 32$$

The quotient of two numbers which have different signs is negative; no matter which number is larger. EX: $(-24)(8) = -192, (-4)(10) = -40, (-5)(-2) = 10$

DOUBLE NEGATIVE

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

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