

MATH REVIEW

THEORY • FORMULAS • PROPORTION • VALUE • STATISTICS • PROBABILITY

A COMPREHENSIVE OVERVIEW OF BASIC MATHEMATICAL CONCEPTS

SET THEORY

NOTATION

1. Braces indicate the beginning and end of a set notation, when listed, elements or members must be separated by commas.
EX: $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$
2. The empty set, or null set, is a set containing no elements or members, the empty set is a subset of all sets and is also written as $\emptyset$.
3. In a symbol that means "such that".
4. Means is a member of or is an element of.
EX: If $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then A is a member of A because A is in set A .
5. Means is not a member of or is not an element of.
EX: If $B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then A is not a member of B because A is not in set B .
6. Means is a subset of, also may be written as $\subset$.
7. Means is not a subset of, also may be written as $\not\subset$.
8. Indicates that every element of set A is also an element of set B .
EX: If $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$ and $B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then $A \subset B$ because A is a subset of B .
9. Is the number of elements of a set when it equals the number of elements in that set.
EX: If $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then A has 26 elements and $26 = A$.

OPERATIONS

- A, B Indicates the union of set A with set B , every element of set A 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 the two sets together into one set, making sure not to write any element more than once.
EX: If $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$ and $B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then $A \cup B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$.



- A, B Indicates the intersection of set A with set B , every element of this set is an element of set A and set B , that is, to form the intersection of two sets, list only those elements that are found in both of the two sets.
EX: If $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$ and $B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then $A \cap B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$.



- X Indicates the complement of set A —that is, all elements in the universal set that are not in set A .
EX: If the universal set is the set of integers and $A = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100\}$, then $A^c = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100\}$.



PROPERTIES

- A, B Indicates all the elements in set A are also in set B and all elements in set B are also in set A , these elements do not have to be in the same order.
EX: If $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$ and $B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then $A = B$.
- n(A) Indicates the number of elements in set A —that is, the cardinal number of the set.
EX: If $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then $n(A) = 26$.
- A, 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 $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$ and $B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then $A \sim B$ because $n(A) = 26$ and $n(B) = 26$.
- A, B, C Indicates disjoint sets that have no elements in common.
EX: If $A = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$ and $B = \{A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z\}$, then $A \cap B = \emptyset$ because there are no common elements.

PROPERTIES OF REAL NUMBERS

CLOSURE PROPERTIES

- $a + b$ is a real number; when you add two real numbers, the result is also a real number.
EX: 3 and 4 are both real numbers; $3 + 4 = 7$ and the sum, 7, is also a real number.
- $a - b$ is a real number; when you subtract two real numbers, the result is also a real number.
EX: 4 and 10 are both real numbers; $4 - 10 = -6$ and the difference, -6, is also a real number.
- $a \cdot b$ is a real number; when you multiply two real numbers, the result is also a real number.
EX: 10 and -3 are both real numbers; $(10)(-3) = -30$ and the product, -30, is also a real number.
- $\frac{a}{b}$ is a real number when $b \neq 0$; when you divide two real numbers, the result is also a real number unless the denominator (divisor) is 0.
EX: -20 and 5 are both real numbers; $\frac{-20}{5} = -4$ and the quotient, -4, is also a real number.

COMMUTATIVE PROPERTIES

- $a + b = b + a$; the order in which you add two numbers does not change the sum.
EX: $6 + 15 = 21$ and $15 + 6 = 21$, so $6 + 15 = 15 + 6$.
- $a \cdot b = b \cdot a$; the order in which you multiply two numbers does not change the product.
EX: $(4)(24) = 96$ and $(24)(4) = 96$, so $(4)(24) = (24)(4)$.
- $a - b = b - a$; you cannot subtract in any order and get the same answer.
EX: $6 - 2 = 4$, but $2 - 6 = -4$, there is no commutative property for subtraction.
- $\frac{a}{b} = \frac{b}{a}$; you cannot divide in any order and get the same answer.
EX: $\frac{6}{2} = 3$, but $\frac{2}{6} = 0.33$, so there is no commutative property for division.

ASSOCIATIVE PROPERTIES

- $(a + b) + c = a + (b + c)$; the order in which you group more than two numbers when adding does not change the sum.
EX: $(2 + 3) + 4 = 7 + 4 = 11$ and $2 + (3 + 4) = 2 + 7 = 9$, so $(2 + 3) + 4 = 2 + (3 + 4)$.
- $(a \cdot b) \cdot c = a \cdot (b \cdot c)$; the order in which you group more than two numbers when multiplying does not change the product.
EX: $(4 \cdot 5) \cdot 6 = 20 \cdot 6 = 120$ and $4 \cdot (5 \cdot 6) = 4 \cdot 30 = 120$, so $(4 \cdot 5) \cdot 6 = 4 \cdot (5 \cdot 6)$.
- The associative property does not work for subtraction or division.
EX: For subtraction, $(10 - 4) - 2 = 6 - 2 = 4$, but $10 - (4 - 2) = 10 - 2 = 8$; for division, $(12 \div 6) \div 2 = 2 \div 2 = 1$, but $12 \div (6 \div 2) = 12 \div 3 = 4$; note that these answers are not the same.

IDENTITY PROPERTIES

- $a + 0 = a$; adding 0 to a number does not change its value.

- $a \cdot 1 = a$; multiplying a number by 1 does not change its value.
EX: $2(11) = 22$ and $(1)(2) = 2$.
- There are no identities for subtraction or division.

INVERSE PROPERTIES

- $a + (-a) = 0$; a number plus its additive inverse (the number with the opposite sign) is 0.
EX: $5 + (-5) = 0$ and $-10 + 10 = 0$.
- $a \cdot \frac{1}{a} = 1$; a number times its multiplicative inverse (the number written as a fraction and flipped) is 1.
EX: $3 \cdot \frac{1}{3} = 1$, the exception is 0 because 0 cannot be multiplied by any number and result is a product of 0.

DISTRIBUTIVE PROPERTY

- $a(b + c) = ab + ac$ or $a(b - c) = ab - ac$; each term in the parentheses must be multiplied by the term in front of the parentheses.
EX: $4(5 + 7) = 4(5) + 4(7) = 20 + 28 = 48$.
- Sometimes variables are included within parentheses in mathematical expressions using the distributive property allows you to remove the parentheses in such a expression.
EX: $4(5x + 7) = 4(5x) + 4(7) = 20x + 28$.

PROPERTIES OF EQUALITY

- Reflexive: $a = a$; both sides of the equation are identical.
EX: $5 = 5$.
- Symmetric: If $a = b$, then $b = a$; this property allows you to exchange the two sides of an equation.
EX: If $7 = 9$, $9 = 7$ becomes $9 = 7$.
- Transitive: If $a = b$ and $b = c$, then $a = c$; this property allows you to connect statements that are each equal to the same common statement.
EX: If $5 = 6$ and $6 = 7$, you can eliminate the common term 6 and write the new equation: $5 = 7$.
- Addition property of equality: If $a = b$, then $a + c = b + c$; this property allows you to add any number or algebraic term to any equation as long as you add it to both sides to keep the equation true.
EX: If $5 = 6$, if you add 3 to one side and not the other, the equation becomes $8 = 9$, which is false, but if you add 3 to both sides, you get a true equation $8 = 9$, also, $5 + 3 = 8$ becomes $8 = 9$ if you add 3 to both sides, the result is the equation $8 = 9$.
- Multiplication property of equality: If $a = b$, then $ac = bc$; when $c \neq 0$, this property allows you to multiply both sides of an equation by any nonzero value.
EX: If $5 = 6$, then $(4)(5) = (4)(6)$ and $20 = 24$, and $5 = 6$, note that both sides of the equation were multiplied by 4.

SETS OF NUMBERS

DEFINITIONS

- Natural or counting numbers: $\{1, 2, 3, 4, 5, \dots, 16, 17, 18, \dots\}$
- Whole numbers: $\{0, 1, 2, 3, \dots, 16, 17, 18, 19, \dots\}$
- Integers: $\{\dots, -4, -3, -2, -1, 0, 1, 2, 3, 4, \dots\}$
- Rational numbers: $\{\frac{p}{q} | p \text{ and } q \text{ are integers, } q \neq 0\}$; the sets of natural numbers, whole numbers, and integers, as well as numbers that can be written as proper or improper fractions, are all subsets of the set of rational numbers.
- Irrational numbers: $\{a | a \text{ is a real number that is not a rational number}\}$; the sets of rational numbers and irrational numbers have no elements in common and are therefore disjoint sets.
- Real numbers: $\{a | a \text{ is the coordinate of a point on a number line}\}$; the union of the set of rational numbers with the set of irrational numbers equals the set of real numbers.
- Imaginary numbers: $\{ai | a \text{ is a real number and } i \text{ is the number whose square is } -1, i^2 = -1\}$; the sets of real numbers and imaginary numbers have no elements in common and are therefore disjoint sets.

- Complex numbers: $\{a + bi | a \text{ and } b \text{ are real numbers and } i \text{ is the number whose square is } -1\}$; the set of real numbers and the set of imaginary numbers are both subsets of the set of complex numbers.
EX: $4 + 3i$ and $3 - 2i$ are complex numbers.

COMPLEX NUMBER S



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