



COLLEGE ALGEBRA



SETS OF NUMBERS

The illustration shows the relationships between the various sets of numbers.



- **Natural numbers (N):** Counting numbers, beginning at 1.
EX: $\{1, 2, 3, \dots\}$
- **Whole numbers (W):** Natural numbers and 0.
EX: $\{0, 1, 2, 3, \dots\}$
- **Integers (Z):** Positive and negative whole numbers.
EX: $\{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$
- **Rational numbers (Q):** Numbers that can be written as the ratio of two integers (but not dividing by 0).
EX: $\{\frac{1}{2}, \frac{7}{5}, \frac{13}{1}, -\frac{35}{100}\}$
- **Irrational numbers (I):** Any number that can be written as a non-repeating, non-terminating decimal.
EX: $\{\pi, e\}$
- **Real numbers (R):** All the rational and irrational numbers.
EX: $\{1, \frac{7}{5}, 2.753\}$
- **Imaginary numbers (I):** Numbers that when squared result in a negative number.
EX: $\{\sqrt{-1}, i, -4.7i\}$

- **Complex numbers (C):** Real and imaginary numbers in the form $a + bi$, where a and b are real and i is imaginary.
EX: $\{1 + i, 2 - 5.2i\}$

Exponent Rules

Rule Name	Rule	Example
Product rules	$a^m \cdot a^n = a^{m+n}$	$3^2 \cdot 3^3 = 3^{2+3} = 3^5 = 2,437$
	$a^m \cdot b^m = (a \cdot b)^m$	$2^3 \cdot 3^3 = (2 \cdot 3)^3 = 10^3 = 100$
Quotient rules	$\frac{a^m}{a^n} = a^{m-n}$	$\frac{2^5}{2^2} = 2^{5-2} = 2^3 = 8$
	$\frac{a^m}{b^m} = (\frac{a}{b})^m$	$\frac{6^3}{2^3} = (\frac{6}{2})^3 = 3^3 = 27$
Power rules	$(a^m)^n = a^{m \cdot n}$	$(4^2)^3 = 4^{2 \cdot 3} = 4^6 = 4,096$
	$\sqrt[n]{a^m} = a^{\frac{m}{n}}$	$\sqrt[3]{2^9} = 2^{\frac{9}{3}} = 2^3 = 8$
Negative exponents	$a^{-n} = \frac{1}{a^n}$	$4^{-2} = \frac{1}{4^2} = 0.0625$
	$a^0 = 1$	$9^0 = 1$

Base of 0	$0^n = 0$, for $n > 0$	$0^0 = 0$
Exponent of 1	$a^1 = a$	$2^1 = 2$
Base of 1	$1^n = 1$	$1^5 = 1$
Base of -1	$(-1)^n = 1$, n even -1 , n odd	$(-1)^2 = 1$ $(-1)^3 = -1$

Properties & Formulas

- **Slope:** The slope or rate of change of a line is the ratio of the change in y -values over the change in x -values.
 $m = \frac{y_2 - y_1}{x_2 - x_1}$
- **Pythagorean Theorem:** $a^2 + b^2 = c^2$, where a and b are the legs of a right triangle and c is the hypotenuse.
- **Distance Formula:** $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
- **Midpoint Formula:** $M(x, y) = (\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$
- **Quadratic Formula:** Given an equation $ax^2 + bx + c = 0$, where $a \neq 0$.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

EQUATIONS & INEQUALITIES

Forms of Linear Equations

- **Linear function:** A function whose graph is a non-vertical line or part of a non-vertical line. There are three forms of linear equations: slope-intercept, point-slope, and standard form.
- **Slope-intercept form:** $y = mx + b$, where m is the slope and b is the y -intercept of the line.
- **EX:** If a line has a slope of 3 and y -intercept of 3, the equation of the line is $y = 3x + 3$.
- **Point-slope form:** $y - y_1 = m(x - x_1)$, where m is the slope and (x_1, y_1) is a point on the line.
- **EX:** If a line has a slope of -1 and contains the point $(4, -3)$, the equation of the line is $y - (-3) = -1(x - 4)$ or $y + 3 = -4(x - 4)$.
- **Standard form:** $Ax + By = C$, where A , B , and C are integers and A is positive. The slope is $-\frac{A}{B}$ and the y -intercept is $-\frac{C}{B}$. This form of a line is most often used to find intercepts by plugging 0 in for x and y separately and solving.

- **EX:** Given the line $2x + 5y = 3$, the slope is $-\frac{2}{5}$ and the y -intercept is $\frac{3}{5}$. The intercepts could also be found by substitution as follows:
 x -intercept (plug in 0 for y):
 $2x + 5(0) = 3$
 $2x = 3$
 $x = \frac{3}{2}$
 y -intercept (plug in 0 for x):
 $2x + 5y = 3$
 $2(0) + 5y = 3$
 $5y = 3$
 $y = \frac{3}{5}$

Solving Linear Equations

- **Equivalent equations:** An equation that has the same solution as the original equation before a property of equality was performed.
- **Solving an equation** means isolating the variable on one side of the equation and then simplifying the other side as much as possible.
- The table shows properties that can be used and examples of solving linear equations.
- **Multi-step equations** are solved by using combinations of the properties as needed.

Addition Property of Equality: Adding the same number or term to each side of an equation produces an equivalent equation.

- For any real numbers a , b , and c , if $a = b$, then $a + c = b + c$.
- **EX:**
 $x - 4 = 2$
 $x - 4 + 4 = 2 + 4$
 $x = 6$

Subtraction Property of Equality: Subtracting the same number from each side of an equation produces an equivalent equation.

- For any real numbers a , b , and c , if $a = b$, then $a - c = b - c$.
- **EX:**
 $x + 4 = 2$
 $x + 4 - 4 = 2 - 4$
 $x = -2$

Multiplication Property of Equality: Multiplying each side of an equation by the same number produces an equivalent equation.

- For any real numbers a , b , and c , if $a = b$, then $ac = bc$.
- **EX:**
 $\frac{x}{5} = 3$
 $5 \cdot \frac{x}{5} = 5 \cdot 3$
 $x = 15$

Division Property of Equality: Dividing each side of an equation by the same nonzero number produces an equivalent equation.

- For any real numbers a , b , and c , $c \neq 0$, if $a = b$, then $\frac{a}{c} = \frac{b}{c}$.
- **EX:** $4x = 20$
 $\frac{4x}{4} = \frac{20}{4}$
 $x = 5$

Absolute Value Equations

- The absolute value of a number is its distance from 0 on the number line. So, an equation such as $|x| = 2$ has 2 solutions because both 2 and -2 are a distance of 2 from 0.
- **To solve:** Isolate the absolute value expression on one side of the equation and then solve the disjunction.
- **EX:**
 $|x - 3| + 5 = 7$
 $|x - 3| = 2$
 $x - 3 = 2$ or $x - 3 = -2$
 $x - 3 + 3 = 2 + 3$ or
 $x - 3 + 3 = -2 + 3$
 $x = 5$ or $x = 1$

Quadratic Equations

- Quadratic equations are written in the form $ax^2 + bx + c = 0$ and can have none, one, or two real-number solutions.
- **To solve:** Graph, factor, use square roots, complete the square, and use the quadratic formula.

Choosing a Solution Method	Solution
Equation: $2x^2 - 8 = 0$ Method: Square Roots Justification: There is no x -term.	$2x^2 - 8 = 0$ $2x^2 = 8$ $x^2 = 4$ $x = 2$ or -2
Equation: $x^2 + x - 6 = 0$ Method: Factoring Justification: 6 has only a few factors to check.	$x^2 + x - 6 = 0$ $(x + 3)(x - 2) = 0$ $x = -3$ or 2
Equation: $2x^2 + 5x - 9 = 0$ Method: Quadratic Formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{-5 \pm \sqrt{5^2 - 4(2)(-9)}}{2(2)}$ $x = \frac{-5 \pm \sqrt{25 + 72}}{4}$ $x = \frac{-5 \pm \sqrt{97}}{4}$
Equation: $x^2 - 4x + 3 = 0$ Method: Completing the Square or Quadratic Formula Justification: The coefficient of the x^2 term is 1, but the equation cannot be factored.	$x^2 - 4x + 3 = 0$ $x^2 - 4x + \dots = -3 + \dots$ $(\frac{4}{2})^2 = (\frac{4}{2})^2 = 4$ $x^2 - 4x + 4 = -3 + 4$ $(x - 2)^2 = 1$ $x - 2 = \pm \sqrt{1}$ $x - 2 = 1$ or $x - 2 = -1$ $x = 3$ or $x = 1$

You can determine how many solutions the quadratic equation will have by using the discriminant. The discriminant is the expression under the radical in the quadratic formula.

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Reza Nazari



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