# COLLEGE ALGEBRA FOUNTIONS

## SETS OF NUMBERS

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



- Natural numbers (N): Counting numbers, beginning at I. EDG: 41. 2. 3. . . . 1
- Whole numbers Cit's Natural members and 0.
- Integers (E): Positive and negative whole numbers. ERC ( .... -3, -2, -1, 0, 1, 2, 3, ....)
- Rational numbers (Q'it Numbers that can be written as the ratio of two integers (but not dividing by 6).
- $100 + \frac{1}{2}, \frac{7}{3}, \frac{13}{1}, -\frac{33}{100}$
- Irrational numbers (P): Any number that can be written. as a non-repeating, mon-terminating decimal.
- Read maniferer (E): All the estimate and irrational numbers. EXT. 21. - 2.7500
- Imaginary numbers (I): Numbers that when squared result in a negative number.

THE PART OF STREET

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	the forms	are duty reduce	or a send t	Same made	Laural Aries	imaginary.
103	G 11 + 4.2	-6.299				

## **Exponent Rules**

	Blude Name	Mule	Example	
	Preshagt	40° × 40° = 40° ° °	3" • 3" - 3" - 3" - 2,187	
	makes	of a bit in the a big.	2' - 5' = (2 - 5)' - 10' - 1000	
	Quotient rules	£	$\frac{3^{4}}{3^{4}} - 3^{4,4} - 9$	
		# - (#)	$\frac{6^3}{2^3} = \left(\frac{6}{2}\right)^2 = 27$	
	Power rules	garge - arre-	(4"y" - 4""" - 4" - 4,006	
		4- day	$2^{p'} - 2^{[p']} - 2^{p} - 512$	
		4/4 4-	₹ - 2 <sup>1</sup> - 2*2* - 4	
		4 - 4 E	27 - 427 - 3	
i	Negative exponents	$b = -\frac{1}{b^n}$	$a^{+} - \frac{1}{a^{2}} = 0.015625$	
	Exponent	$b^{*} = 1$	9" - 1	

**EQUATIONS & INFOUALITIES** 

7			
1	Diame of 0	07 to 01, Short ve to 10	0" + 0
	Exponent of	$b^{j} = b$	7' - 7
1	Those of I	P = L	1"-1
	Base of -1	$(-1)^n = -1$ , would	$(-1)_{i} = 1$ $(-1)_{i} = -1$

#### Properties & Formulas

- · Slope: The slope or rate of chance of a line is the ratio of the change in syvalues over the change in a-values.  $M_{\odot} - M_{\odot}$
- Pathagorean Theorems of + b' c', where a and b are the legs of a right triangle and c is the hypotenuse.
- Distance Formula:  $d = \sqrt{(x_1 x_1)^2 + (y_1 y_1)^2}$
- m Midpoint Formula:  $M(x, y) = \frac{X_i + X_{ij}}{2}, \frac{F_i + F_j}{2}$
- Ouadratic Formula: Given an equation  $am^2 + bm + c = 0$ , where a of 0.

$$x = -b \times \sqrt{b^2 - 4ac}$$

#### Forms of Linear Equations

- · Linear functions A function whose graph is a nonvertical line or part of a mon-vertical line. There are three forms of linear ogustimes: slope-intercept, pointslope, and standard form.
  - Stope-intercept form: arm year in A., with easy me in tibe. shops and h is the printercourt of the lime.

EX: If a line has a slope of 2 and y-intercept of 3, the equation of the line is  $p = 2\pi \times 3$ .

- Point-slope forms: are your market of the better the or in the slope and (x ... y .) is a point on the line.

EX: If a line has a slore of -1. and contains the point (4, -1). the equation of the line is y = (-1) = -10x - 40 orproperty of the second second second

- Standard fores:
- Ax + By C, where A. B, and C are integers and A in positive. The slope is - and the p-intercept is . This form of a lime to most office used to find intercepts by plugging 0 in for a and v separately and solving.

DC: Given the line 2x + 5y + 3, the slope is - 2 and the p-intercept is 2. The intercents could also be found by authoritation as follows:

x-intercept (plug in 0 for y): 2x + 3x + 32x + 5600 - 3

2x - 3.

p-intercept (plug in 0 for s): 2x = 5x = 3

2009 + 5y = 3 $5a \sim 3$ 

## Solving Linear Equations

Equivalent equations Ass equation that has the same solution as the original equation before a property of acquadity was performed.

- · Solving an equation reconsinolating the variable on one side of the equation and then simplifying the other side are musicle are provedible.
- The table shows properties that can be used and examples of solving linear constitues.
- Multi-step equations are: solved by using combinations of the properties as meeded.

## Addition Property of

Equality: Adding the same mainther or terms to each wide of an equation produces an contratent constinu.

For any real manbers of h and e. War who there is a good to be go.

Section 2 4-4-4-2-4 4 - 6

#### Subtraction Property of Eigenality; Substructing the science manufact from each side

of an equation produces in experienced expendions.

For any real numbers at h. and et. if it - by them and the second

100 化中国 电影 8+4-4-2-4 30 -- 2

#### Multiplication Property of Equality: Multiplying

each side of an equation by the same number produces an equivalent equation.

For any real numbers at h. and a, if a = b, then ac = bc.

1000 至一方

5-2-5-3

#### Division Property of

Equality: Dividing each side of an equation by the same postarero manifest produces anconsist about consistent.

For any real possibers at h. and  $c, c \neq 0$ , if a = b.

Steen S. . B.

EDC: 48 - 240 4ac 200

#### Absolute Value Equations

- . The absolute value of a mumber in its distance from O on the number line. So, an equation such as |x| - 2 has 2 solutions because both 2 and -2 are a distance of 2
- To solver business the above. bate value expression on one side of the equation and then notive the disjunction.

40.00

|x-3| + 5 = 7

||x-y|| = 2.

x - 3 - 2 or x - 3 - -2.

x - 3 + 3 - 2 + 3 or 2-3-3-2-2-3

 $x = 5 \cos x = 1$ 

#### Quadratic Equations

 Quadratic equations are written in the form and a feet a gray Grand can have none, one, or tree real-eurober solutions.

All read the

4.0 + 2000 - 20 + 40

ALCOHOLD WILLIAM

A ... - No. 2-534

x = -3 or 2.

■ To solve: Graph, factor, use square roots, complote the agains, and use the quadratic formula.

hoosing a Solution Met	head
	Setution
quation 2x" - 8 - 0	$2x^2 - 8 = 0$
	25" - 8

Method: Square Roots Appetitionations There in not

Street Street and Counties of a residence 20-140-6-1

Marthaudi Factorius

Avertifications is have easily in Gover Shaptones, too olbosok:

Eigenstions  $2x^2 - 8x - 9 - 0$ 

Marked: Charlestic Formula.

Austification: The equations cannot be factored.

Equipment of - the - 3 - 0 of a day of the day Method: Completing the Square or Quadratic

Appelitionations That coefficient of the x' term. in 1, but the equation compat be factored.

Consumation .

2-60- -3- $\binom{x}{2} - \binom{x}{2} - y$ Acres 4 - 3 - 9 x' - 4x + 9 - 6down the water 3-3- m/s

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

## **Algebra For College Students Answers**

Jessica J Manson

**Algebra For College Students Answers:** 

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