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. IDC: (.... -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).
- $100 + \frac{1}{2}, \frac{7}{5}, \frac{13}{1}, -\frac{35}{100}$
- 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

-	Complex numbers (C): Real and imagin	nary mumbers in
	the forms a + bit, where a and b are real an	data imaginary.
103	11 + 4.2 - 6.20	

Exponent Rules

	Blude Name	Mule	Example
	Prevduct makes	40° × 40° = 40° ° °	3" • 3" - 3" - 3" - 2,187
		of a brim paradigr.	2' - 5' - (2 - 5)' - 10' - 100
	Quotient rules	=	$\frac{3^4}{3^4} - 3^{4st} - 9$
		# - (#)	$\frac{6^3}{2^2} = \left(\frac{6}{2}\right)^2 = 27$
	Perwer roles	garge - arre-	$(A^{*})^{*} - A^{***} - A^{*} - A + 0.006$
		20- 20-1	$2^{p'} - 2^{ p' } - 2^{p} - 512$
		40 0-	VF-21-22-4
		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	Dance of 0	07" 01, Bloot on 1+ 40	0" = 0
	Exponents of	$b^{j} = b$	2" - 7
1	Those of I	P = L	15-1
	Base of -1	$(-1)^n = -1$, would	$(-1)^{n} = 1$ $(-1)^{n} = -1$

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 printercount of the lime.

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

- Point-slope forms: pro-year market of years, wherear 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 suffectionation 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 reconsinothing 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 - As there and the second

100 化中国 电影 8+4-4-2-4 20 -- 21

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 numbers 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.

Construction .

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.

Study Guide For College Algebra 3rd Ed

VM Jensen

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