ALGEBRA

PROPERTIES

ARITHMETIC PROPERTIES

ASSOCIATIVE	a(bc) =	(ab)c

COMMUTATIVE
$$a + b = b + a$$
 and $ab = ba$

DISTRIBUTIVE
$$a(b + c) = ab + ac$$

ARITHMETIC OPERATIONS EXAMPLES

$$ab + ac = a(b + c)$$

$$a\left(\frac{b}{c}\right) = \frac{ab}{c}$$

$$\frac{\left(\frac{a}{b}\right)}{c} = \frac{a}{bc}$$

$$\frac{a}{\left(\frac{b}{c}\right)} = \frac{ac}{b}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd}$$

$$\frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$$

$$\frac{a-b}{c-d} = \frac{b-a}{d-c}$$

$$\frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$$

$$\frac{ab+ac}{a}=b+c, \alpha\neq 0$$

$$\frac{\begin{pmatrix} a \\ b \end{pmatrix}}{\begin{pmatrix} c \\ d \end{pmatrix}} = \frac{ad}{bc}$$

QUADRATIC EQUATION

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

EXPONENT PROPERTIES

$$a^n a^m = a^{n+m}$$

$$(a^n)^m = a^{nm}$$

$$(ab)^n = a^n b^n$$

$$a^{-n} = \frac{1}{a^n}$$

$$\left(\frac{a}{b}\right)^{-n} = \left(\frac{b}{a}\right)^n = \frac{b^n}{a^n}$$

$$\frac{a^n}{a^m}=a^{n-m}=\frac{1}{a^{m-n}}$$

$$a^0 = 1, \alpha \neq 0$$

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$$

$$\frac{1}{\alpha^{-n}} = \alpha^n$$

$$a^{\frac{n}{m}} = \left(a^{\frac{1}{m}}\right)^n = \left(\alpha^n\right)^{\frac{1}{m}}$$

PROPERTIES OF INEQUALITIES

If
$$a < b$$
 then $a + c < b + c$ and $a - c < b - c$

If
$$a < b$$
 and $c > 0$ then $ac < bc$ and $a/c < b/c$

If
$$a < b$$
 and $c < 0$ then $ac > bc$ and $a/c > b/c$

PROPERTIES OF COMPLEX NUMBERS

$$i = \sqrt{-1}$$

$$\ell^2 = -1$$

$$\sqrt{-\alpha} = i\sqrt{\alpha}, \quad \alpha \ge 0$$

$$(a + bi) + (c + di) = a + c + (b + d)i$$

$$(a + bi) - (c + di) = a - c + (b - d)i$$

$$(a + bi)(c + di) = ac - bd + (ad + bc)i$$

 $(a + bi)(a - bi) = a^2 + b^2$

$$|a + bi| = \sqrt{a^2 + b^2}$$

$$\overline{(a+bi)} = a-bi$$

$$\overline{(a+bi)}(a+bi) = |a+bi|^2$$

$$\frac{1}{(a+bi)} = \frac{(a-bi)}{(a+bi)(a-bi)} = \frac{a-bi}{a^2+b^2}$$

$ax^2 + bx + c = 0$ RADICAL PROPERTIES

 $a,b \ge 0$ for even n

$$\sqrt[n]{a} = a^{\frac{1}{n}}$$

$$\sqrt[m]{\sqrt{\alpha}} = \sqrt[m]{\alpha}$$

$$\sqrt[3]{ab} = \sqrt[3]{a}\sqrt[3]{b}$$

$$\sqrt[n]{\frac{a}{b}} = \frac{\sqrt[n]{a}}{\sqrt[n]{b}}$$

 $\sqrt[n]{a^n} = a$, if n is odd

 $\sqrt[n]{a^n} = |a|$, if n is even

LOGARITHM PROPERTIES

if $y = \log_b x$ then $b^y = x$

$$\log_b b = 1$$
 and $\log_b 1 = 0$

$$\log_b b^x = x$$

$$b^{\log_2 x} = x$$

$$\log_a x = \frac{\log_b x}{\log_b a}$$

$$\log_b(x^r) = r \log_b x$$

$$\log_b(xy) = \log_b x + \log_b y$$

$$\log_b \left(\frac{x}{y}\right) = \log_b x - \log_b y$$

COMMON FACTORING EXAMPLES

$$x^2 - a^2 = (x + a)(x - a)$$

$$x^2 + 2ax + a^2 = (x + a)^2$$

$$x^2 - 2ax + a^2 = (x - a)^2$$

$$x^{2} + (a + b)x + ab = (x + a)(x + b)$$

$$x^3 + 3ax^2 + 3a^2x + a^3 = (x + a)^3$$

$$x^3 + a^3 = (x + a)(x^2 - ax + a^2)$$

$$x^3 - a^3 = (x - a)(x^2 + ax + a^2)$$

$$x^{2n} - a^{2n} = (x^n - a^n)(x^n + a^n)$$

ABSOLUTE VALUE

$$|a| = \begin{cases} a, & \text{if } a \ge 0 \\ -a, & \text{if } a < 0 \end{cases}$$

$$\|a\| = \|-a\|$$

$$|a| \ge 0$$

$$|ab| = |a||b|$$

$$\left|\frac{a}{b}\right| = \frac{|a|}{|b|}$$

$$|a+b| \le |a| + |b|$$

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COMPLETING THE SQUARE

$$ax^2 + bx + c = a(...)^2 + constant$$

- 1. Divide by the coefficient a.
- 2. Move the constant to the other side.
- Take half of the coefficient b/a, square it and add it to both sides.
- 4. Factor the left side of the equation.
- Use the square root property.
- Solve for x.

Algebra Properties Cheat Sheet

Mark Zegarelli

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