## **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**

Gregory Budzban, Harry Randolph Hughes, Henri Schurz

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  - Chapter 1: Introduction to Algebra Properties Cheat Sheet
  - Chapter 2: Essential Elements of Algebra Properties Cheat Sheet
  - o Chapter 3: Algebra Properties Cheat Sheet in Everyday Life
  - Chapter 4: Algebra Properties Cheat Sheet in Specific Contexts
  - ∘ Chapter 5: Conclusion
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- 3. In chapter 2, the author will delve into the foundational concepts of Algebra Properties Cheat Sheet. This chapter will elucidate the essential principles that must be understood to grasp Algebra Properties Cheat Sheet in its entirety.
- 4. In chapter 3, the author will examine the practical applications of Algebra Properties Cheat Sheet in daily life. The third chapter will showcase real-world examples of how Algebra Properties Cheat Sheet can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Algebra Properties Cheat Sheet in specific contexts. This chapter will explore how Algebra Properties Cheat Sheet is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, the author will draw a conclusion about Algebra Properties Cheat Sheet. The final chapter will summarize the key points that have been discussed throughout the book.
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