

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

$$\begin{aligned}
 ab + ac &= a(b + c) & \frac{a}{b} - \frac{c}{d} &= \frac{ad - bc}{bd} \\
 a\left(\frac{b}{c}\right) &= \frac{ab}{c} & \frac{a-b}{c-d} &= \frac{b-a}{d-c} \\
 \left(\frac{a}{b}\right) &= \frac{a}{bc} & \frac{a+b}{c} &= \frac{a}{c} + \frac{b}{c} \\
 \frac{a}{\left(\frac{b}{c}\right)} &= \frac{ac}{b} & \frac{ab+ac}{a} &= b+c, a \neq 0 \\
 \frac{a}{b} + \frac{c}{d} &= \frac{ad+bc}{bd} & \left(\frac{a}{b}\right) &= \frac{ad}{bc} \\
 \left(\frac{b}{c}\right) &= \frac{bc}{ad}
 \end{aligned}$$

QUADRATIC EQUATION

For the equation $ax^2 + bx + c = 0$

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

RADICAL PROPERTIES

$a, b \geq 0$ for even n

$$\begin{aligned}
 \sqrt[n]{a} &= a^{\frac{1}{n}} \\
 \sqrt[n]{\sqrt[n]{a}} &= \sqrt[n]{a} \\
 \sqrt[n]{ab} &= \sqrt[n]{a} \sqrt[n]{b} \\
 \sqrt[n]{\frac{a}{b}} &= \frac{\sqrt[n]{a}}{\sqrt[n]{b}} \\
 \sqrt[n]{a^n} &= a, \text{ if } n \text{ is odd} \\
 \sqrt[n]{a^n} &= |a|, \text{ if } n \text{ is even}
 \end{aligned}$$

LOGARITHM PROPERTIES

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

$$\begin{aligned}
 \log_b b &= 1 \text{ and } \log_b 1 = 0 \\
 \log_b b^x &= x \\
 b^{\log_b x} &= x \\
 \log_a x &= \frac{\log_b x}{\log_b a} \\
 \log_b(x^r) &= r \log_b x \\
 \log_b(xy) &= \log_b x + \log_b y \\
 \log_b\left(\frac{x}{y}\right) &= \log_b x - \log_b y
 \end{aligned}$$

EXPONENT PROPERTIES

$$\begin{aligned}
 a^n a^m &= a^{n+m} \\
 (a^n)^m &= a^{nm} \\
 (ab)^n &= a^n b^n \\
 a^{-n} &= \frac{1}{a^n} \\
 \left(\frac{a}{b}\right)^{-n} &= \left(\frac{b}{a}\right)^n = \frac{b^n}{a^n} \\
 \frac{a^n}{a^m} &= a^{n-m} = \frac{1}{a^{m-n}} \\
 a^0 &= 1, a \neq 0 \\
 \left(\frac{a}{b}\right)^n &= \frac{a^n}{b^n} \\
 \frac{1}{a^{-n}} &= a^n \\
 a^{\frac{n}{m}} &= \left(a^{\frac{1}{m}}\right)^n = (a^n)^{\frac{1}{m}}
 \end{aligned}$$

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

$$\begin{aligned}
 i &= \sqrt{-1} \\
 i^2 &= -1 \\
 \sqrt{-a} &= i\sqrt{a}, \quad a \geq 0 \\
 (a + bi) + (c + di) &= a + c + (b + d)i \\
 (a + bi) - (c + di) &= a - c + (b - d)i \\
 (a + bi)(c + di) &= ac - bd + (ad + bc)i \\
 (a + bi)(a - bi) &= a^2 + b^2 \\
 |a + bi| &= \sqrt{a^2 + b^2} \\
 \overline{(a + bi)} &= a - bi \\
 \overline{(a + bi)}(a + bi) &= |a + bi|^2 \\
 \frac{1}{(a + bi)} &= \frac{(a - bi)}{(a + bi)(a - bi)} = \frac{a - bi}{a^2 + b^2}
 \end{aligned}$$

COMMON FACTORING EXAMPLES

$$\begin{aligned}
 x^2 - a^2 &= (x + a)(x - a) \\
 x^2 + 2ax + a^2 &= (x + a)^2 \\
 x^2 - 2ax + a^2 &= (x - a)^2 \\
 x^2 + (a + b)x + ab &= (x + a)(x + b) \\
 x^3 + 3ax^2 + 3a^2x + a^3 &= (x + a)^3 \\
 x^3 + a^3 &= (x + a)(x^2 - ax + a^2) \\
 x^3 - a^3 &= (x - a)(x^2 + ax + a^2) \\
 x^{2n} - a^{2n} &= (x^n - a^n)(x^n + a^n)
 \end{aligned}$$

ABSOLUTE VALUE

$$\begin{aligned}
 |a| &= \begin{cases} a, & \text{if } a \geq 0 \\ -a, & \text{if } a < 0 \end{cases} \\
 |a| &= |-a| \\
 |a| &\geq 0 \\
 |ab| &= |a||b| \\
 \left|\frac{a}{b}\right| &= \frac{|a|}{|b|} \\
 |a + b| &\leq |a| + |b|
 \end{aligned}$$



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COMPLETING THE SQUARE

$$ax^2 + bx + c = a(\dots)^2 + \text{constant}$$

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

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Probability on Algebraic and Geometric Structures Gregory Budzban, Harry Randolph Hughes, Henri Schurz, 2016-06-29 This volume contains the proceedings of the International Research Conference Probability on Algebraic and Geometric Structures held from June 5 7 2014 at Southern Illinois University Carbondale IL celebrating the careers of Philip Feinsilver Salah Eldin A Mohammed and Arunava Mukherjea These proceedings include survey papers and new research on a variety of topics such as probability measures and the behavior of stochastic processes on groups semigroups and Clifford algebras algebraic methods for analyzing Markov chains and products of random matrices stochastic integrals and stochastic ordinary partial and functional differential equations

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standards and to identify and esteem expertise in our profession With new demands relating to technological advances changing demographics internationalism and the inclusion of twenty first century skills there is pressure on schools to deliver greater and deeper success with more students The Turning Point aims to present the factors needed to affect real change for school systems in classrooms and in the teaching profession by Arguing for the establishment of teaching as a true profession alongside areas such as medicine or law Identifying the expertise fundamental to the meeting demands of schools Elaborating on evaluative thinking and clinical practice as the basis of this new profession Outlining core levers of change to show how teachers can have profound impacts on educational medical and social dimensions of students This book is essential reading for teachers school leaders education policymakers teacher candidates and teacher educators Those working in affiliated professions such as adolescent psychologists and health workers will also find aspects of the book relevant to their work The Mathematics Teacher ,2006

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