

# 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

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

## 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

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

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

# Common Core Integrated Algebra Conversion Chart

**Michal Rosen-Zvi**



## **Common Core Integrated Algebra Conversion Chart:**

**Integrated Algebra I Common Core Transitional Course Workbook** Donny Brusca, 2013-12-24 Course Workbook for BOTH the New York State Integrated Algebra and the new Algebra I Common Core Regents Exams Contains key terms and concepts model problems calculator instructions practice problems and Regents exam questions aligned to BOTH curricula Includes every question appearing on the Integrated Algebra Regents through August 2013 organized by topic

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