

Algebra Formula Sheet

“Story Problem Formulas”

Formula	Use
$A = lw$	Area of Rectangle
$A = \frac{1}{2}bh$	Area of a triangle
$A = \pi r^2$	Area of a Circle
$A = \frac{1}{2}(b_1 + b_2)h$	Area of a Trapezoid
$I = Prt$	Simple Interest
$d = rt$	Distance traveled
$V = lwh$	Volume of rectangular solid
$F = (\frac{9}{5})C + 32$	Temperature conversion

Slope Equation: $m = \frac{y_2 - y_1}{x_2 - x_1}$

Point-Slope Form of a Linear Equation:

$$y - y_1 = m(x - x_1)$$

Slope Intercept Form of a Linear Equation:

$$y = mx + b$$

Standard Form of Linear Equation:

$$Ax + By = C, A > 0 \text{ and no fractions}$$

Horizontal Line: $y = c$

Vertical Line: $x = c$

Exponent Rules:

Product Rule: $a^m \cdot a^n = a^{m+n}$

Quotient Rule: $\frac{a^m}{a^n} = a^{m-n}$

Power Rule: $(a^m)^n = a^{mn}$

Power of a Product: $(ab)^n = a^n b^n$

Power of a Quotient: $(\frac{a}{b})^n = \frac{a^n}{b^n}$

Zero Exponent: $a^0 = 1$

Negative Exponent: $a^{-n} = \frac{1}{a^n}$ and $\frac{1}{a^{-n}} = a^n$

Dividing a Polynomial by a Monomial:

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

Perfect Square Trinomials:

$$a^2 + 2ab + b^2 = (a + b)^2$$

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

Difference of Squares: $a^2 - b^2 = (a + b)(a - b)$

Difference of Cubes:

$$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$$

Sum of Cubes: $a^3 + b^3 = (a + b)(a^2 - ab + b^2)$

Zero Factor Property: $ab = 0 \Rightarrow a = 0 \text{ or } b = 0$

Pythagorean Theorem: $a^2 + b^2 = c^2$

Direct Variation: $y = kx$

Inverse Variation: $y = \frac{k}{x}$

Joint Variation: $y = kxz$

Radical Rules:

Definition: $a^{m/n} = \sqrt[n]{a^m} = (\sqrt[n]{a})^m$

Product Rule: $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$

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

Square Root Property: $a^2 = b \Rightarrow a = \pm\sqrt{b}$

Distance Formula: $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Midpoint Formula: $(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2})$

Imaginary Numbers:

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

$$i^2 = -1$$

$$i^3 = -i$$

$$i^4 = 1$$

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

Algebra of Functions:

Sum: $(f + g)(x) = f(x) + g(x)$

Difference: $(f - g)(x) = f(x) - g(x)$

Product: $(f \cdot g)(x) = f(x) \cdot g(x)$

Quotient: $(\frac{f}{g})(x) = \frac{f(x)}{g(x)}$

Composition: $(f \circ g)(x) = f(g(x))$

Logarithmic Definition:

$y = \log_b(x)$ means $x = b^y$

Properties of Logarithms:

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

Quotient: $\log_b(\frac{x}{y}) = \log_b(x) - \log_b(y)$

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

Change of Base: $\log_b(a) = \frac{\log_c(a)}{\log_c(b)}$

$$\log_b(1) = 0$$

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

$$b^{\log_b(x)} = x$$

Algebra Formula Sheet

Scott Fratcher



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Algebra - Task Sheets Vol. 3 Gr. 6-8 Nat Reed,2015-02-01 This is the chapter slice Word Problems Vol 3 Gr 6 8 from the full lesson plan Algebra For grades 6 8 our resource meets the algebraic concepts addressed by the NCTM standards and encourages the students to learn and review the concepts in unique ways Each task sheet is organized around a central problem taken from real life experiences of the students The pages of this resource contain a variety in terms of levels of difficulty and content to provide students with a variety of differentiated learning opportunities Included are opportunities for problem solving patterning algebraic graphing equations and determining averages The task sheets offer space for reflection and opportunity for the appropriate use of technology Also contained are assessment and standards rubrics review sheets color activity posters and bonus worksheets All of our content meets the Common Core State Standards and are written to Bloom s Taxonomy STEM and NCTM standards

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