

# 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:**  
 $Ax + By = C$ ,  $A > 0$  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:**  $ab = 0 \Rightarrow a = 0$  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:**  $\log_b(a) = \frac{\log_r(a)}{\log_r(b)}$

$$\log_b(1) = 0$$

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

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

# Algebra Formula Sheet

**Percival Mallon Symonds**

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