

# Algebra Formulas

Name	Description	Formula
<b>Distributive Property</b>	Expands expressions by distributing multiplication over addition or subtraction.	$a(b + c) = ab + ac$
<b>Quadratic Formula</b>	Solves any quadratic equation of the form $(ax^2 + bx + c = 0)$ .	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
<b>Factoring the Difference of Squares</b>	Used when two squared terms are subtracted.	$a^2 - b^2 = (a - b)(a + b)$
<b>Square of a Binomial</b>	Expands a squared binomial expression.	$(a + b)^2 = a^2 + 2ab + b^2$
<b>Slope of a Line</b>	Measures the steepness between two points on a line.	$m = \frac{y_2 - y_1}{x_2 - x_1}$
<b>Point-Slope Form</b>	Equation of a line given a point and a slope.	$y - y_1 = m(x - x_1)$
<b>Exponent Rule: Product of Powers</b>	When multiplying same bases, add the exponents.	$a^m \cdot a^n = a^{m+n}$

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