Algebra Formula Sheet

The key formulas in one printable page

Slope

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

Slope-intercept form

$$y = mx + b$$

Point-slope form

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

Quadratic formula

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

Difference of squares

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

Perfect square

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

Product of powers

$$x^a x^b = x^{a+b}$$

Power of a power

$$(x^a)^b = x^{ab}$$

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