

ALGEBRA II

Formulas to Memorize for the Algebra 2 Regents

Algebraic Properties/Equations

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

Properties:

$$a + b = b + a$$

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

$$a(b+c) = ab+ac$$

$$a(b+c+d) = ab+ac+ad$$

$$a(b+c+d+e) = ab+ac+ad+ae$$

Mathematical Properties/Equations

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

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

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

$$\frac{\sqrt{a}}{\sqrt{b}} = \sqrt{\frac{a}{b}}$$

$\sqrt{a^2} = a$ (positive or negative)

$\sqrt{a^2} = \text{positive } \sqrt{a^2}$

(positive or negative $\sqrt{a^2}$)

Complex Number System:

$$\sqrt{a^2 + b^2} = \sqrt{a^2} + \sqrt{b^2}$$

$$= \sqrt{a^2} + \sqrt{b^2}$$

Mathematical Properties/Equations

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

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

$$\sqrt{ab} = \sqrt{a}\sqrt{b}$$

Complex Number System: $a + bi$, $a, b \in \mathbb{R}$, $i = \sqrt{-1}$

Properties:

$(a+bi) + (c+di) = (a+c) + (b+d)i$

$(a+bi) \cdot (c+di) = (ac-bd) + (ad+bc)i$

Algebraic Properties: $a(b+c) = ab+ac$

Mathematical Properties/Equations

Polynomial Functions: $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$

Monomials: a^n (where a is a constant and n is a positive integer)

Binomials: $a^n + b^n$ (where a and b are monomials)

Trinomials: $a^n + b^n + c^n$ (where a , b , and c are monomials)

Factoring Polynomials:

$a^2 - b^2 = (a+b)(a-b)$ (difference of squares)

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

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

$a^4 - b^4 = (a^2 - b^2)(a^2 + b^2)$ (difference of squares)

$a^5 - b^5 = (a-b)(a^4 + a^3b + a^2b^2 + ab^3 + b^4)$ (difference of fifth powers)

$a^6 - b^6 = (a-b)(a^5 + a^4b + a^3b^2 + a^2b^3 + ab^4 + b^5)$ (difference of sixth powers)

Classification: $a^n + b^n$

$a^n + b^n + c^n$

Binomials: $a^n + b^n$

$a^n - b^n$

$a^n + b^n$ (where a and b are monomials)

$a^n - b^n$ (where a and b are monomials)

$a^n + b^n + c^n$ (where a , b , and c are monomials)

$a^n - b^n - c^n$ (where a , b , and c are monomials)

$a^n + b^n + c^n + d^n$ (where a , b , c , and d are monomials)

$a^n - b^n - c^n - d^n$ (where a , b , c , and d are monomials)

Factoring Polynomials:

Monomials: a^n

Binomials: $a^n + b^n$

Trinomials: $a^n + b^n + c^n$

Polynomials: $a^n + b^n + c^n + d^n$

Polynomial Functions: $f(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$

Trigonometry

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

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

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

Distance = Rate \times Time

$R = \text{Rate}$ (distance = rate \times time)

Distance = Rate \times Time \times (1000 if in miles)

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



All four formulas that are included on the Regents Math reference chart

All formulas are on one page

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Mary Jane Sterling

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