

ALGEBRA II

Formulas to Memorize for the Algebra 2 Regents

Arithmetic & Geometric Sequences

$$\frac{a_n}{a_m} = \frac{r^{n-m}}{r^{m-n}}$$

Exponents

$$a^0 = 1$$

$$a^m \cdot a^n = a^{m+n}$$

$$\frac{a^m}{a^n} = a^{m-n}$$

$$(a^m)^n = a^{m \cdot n}$$

$$a^{-n} = \frac{1}{a^n}$$

$$\sqrt[n]{a^m} = a^{\frac{m}{n}}$$

Rationalize & Inverse Functions

$$\frac{1}{\sqrt{a}} = \frac{\sqrt{a}}{\sqrt{a} \cdot \sqrt{a}} = \frac{\sqrt{a}}{a}$$

$$\frac{1}{\sqrt{a}} = \frac{\sqrt{a}}{a}$$

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

$$\frac{1}{\sqrt{a}} = \frac{\sqrt{a}}{a}$$

$$\sqrt{a^2} = |a| \text{ (positive root only)}$$

$$|a| = \sqrt{a^2} \text{ (both positive and negative roots)}$$

$$\sqrt{a^2} = |a|$$

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Rationalize & Conjugate Fractions

$$\frac{1}{\sqrt{a}} = \frac{\sqrt{a}}{\sqrt{a} \cdot \sqrt{a}} = \frac{\sqrt{a}}{a}$$

$$\frac{1}{\sqrt{a}} = \frac{\sqrt{a}}{a}$$

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

$$\sqrt{a^2} = |a|$$

$$|a| = \sqrt{a^2}$$

$$\sqrt{a^2} = |a|$$

Factoring

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

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Remainder Theorem

$$P(x) \text{ will give the remainder of } \frac{P(x)}{x-a}$$

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Functions

$$f(x) = 2(x) \text{ then } f(x) \text{ is } 2x$$

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Quadratic

$$ax^2 + bx + c = 0$$

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

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Trigonometry

$$\sin(x) = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos(x) = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan(x) = \frac{\text{opposite}}{\text{adjacent}}$$



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Algebra Ii Formulas Cheat Sheet

RD Boyd



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