

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

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

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

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

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

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

$$\sqrt{a^2} = \text{either } a \text{ or } -a$$

$$\sqrt{a^2} = \text{both } a \text{ and } -a \text{ (both roots)}$$

$$\text{Conjugate square roots}$$

$$\sqrt{a+b} \cdot \sqrt{a-b} = \sqrt{(a+b)(a-b)} = \sqrt{a^2 - b^2}$$

Rationalize & Conjugate Fractions

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

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

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

$$\text{Conjugate Fractions are in the form}$$

$$(a + b) \text{ where } a \text{ and } b \text{ are real numbers and } a \neq b$$

Factoring

$$\text{Difference of Squares: } a^2 - b^2 = (a + b)(a - b)$$

$$\text{GCF, GCM, Trinomial Factoring, AC Method Factoring for Quadratics}$$

Remainder Theorem

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

$$\text{If } P(x) \text{ divided by } (x - c) \text{ is a factor of } P(x)$$

Functions

$$f(x) = (x - 2)(x + 3) \text{ then } f(x) \text{ is 0 at } x = 2 \text{ or } x = -3$$

$$f(x) = (x - 2)(x + 3) \text{ then } f(x) \text{ is 0 at } x = 2 \text{ or } x = -3$$

$$f(x) \text{ and } f(-x) \text{ are ODD functions}$$

$$f(x) \text{ and } f(-x) \text{ are EVEN functions}$$

Transforming Functions

$$f(x) = f(x) + a \text{ } \rightarrow \text{shift up by } a$$

$$f(x) = f(x) - a \text{ } \rightarrow \text{shift down by } a$$

$$f(x) = f(x + a) \text{ } \rightarrow \text{shift left by } a$$

$$f(x) = f(x - a) \text{ } \rightarrow \text{shift right by } a$$

$$f(x) = -f(x) \text{ } \rightarrow \text{reflect across x-axis}$$

$$\text{(not over the graph)}$$

$$f(x) = f(-x) \text{ } \rightarrow \text{reflect left-right}$$

$$\text{(not over the graph)}$$

Quadratics

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

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

Parabolas

$$y = a(x - h)^2 + k \text{ } \rightarrow \text{vertex at } (h, k)$$

$$a > 0 \text{ parabola facing up } \rightarrow \text{opening upwards}$$

$$\text{Vertex at } (h, k)$$

$$\text{Focus: One-fourth parabola at } (h, k + \frac{1}{4a})$$

$$\text{Directrix: One-fourth parabola at } (h, k - \frac{1}{4a})$$

$$a > 0 \text{ } \rightarrow \text{up}$$

$$a < 0 \text{ } \rightarrow \text{down parabola, so vertex, and focus are at the bottom}$$



Trigonometry

$$\text{SOH CAH TOA}$$

$$\text{SOH CAH TOA}$$

$$\text{SOH CAH TOA}$$



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

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

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

$$\csc(\alpha) = \frac{\text{hypotenuse}}{\text{opposite}}$$

$$\sec(\alpha) = \frac{\text{hypotenuse}}{\text{adjacent}}$$

$$\cot(\alpha) = \frac{\text{adjacent}}{\text{opposite}}$$

$$\text{Amplitude of } y = A \sin(B(x - C)) + D \text{ is } |A|$$

$$\text{Period of } y = A \sin(B(x - C)) + D \text{ is } \frac{2\pi}{|B|}$$

$$\text{Phase Shift of } y = A \sin(B(x - C)) + D \text{ is } C$$

$$\text{Vertical Shift of } y = A \sin(B(x - C)) + D \text{ is } D$$

$$\text{Horizontal Shift of } y = A \sin(B(x - C)) + D \text{ is } C$$

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Algrebra 2 2nd Semester E2020 Answers

Lial,Hornsby,McGinnis



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