

ALGEBRA II

Formulas to Memorize for the Algebra 2 Regents

Arithmetic: Ratio of Change

$$\frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1}$$

Exponents

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

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

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

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

$$a^0 = 1$$

Rationalize & Inverse Results

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

$$\frac{1}{\frac{1}{b}} = b$$

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

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

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

$$|a|^2 = \text{either } a \text{ or } -a \text{ (both)}$$

(Both you and me get it now)

Change square roots

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

Rationalize & Conjugate Fractions

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

Conjugate Numbers are to the left
of a + or - where a and b are real
imaginary numbers

Factoring

$$x^2 + 12x + 36 = (x + 6)^2$$

DOT, DOW, Diagonal Factoring, AC
Method Factoring for Quadratics

Binomial & Theorems

$(x+y)^2$ will give the expansion of $(x+y)^2$

$(x+y)^3$ will give a factor of $(x+y)$

Functions

$f(x) \cdot g(x) = 2(x) \cdot 3(x) = 6(x^2)$

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FOILS (first, outer, inner, last)

Transforming Functions

$f(x) = 2(x) + 3$ → shift up by 3

$f(x) = 2(x) - 3$ → shift down 3

$f(x) = 2(x + 3)$ → shift left by 3

$f(x) = 2(x - 3)$ → shift right by 3

$f(x) = 2(x) + 3$ → reflect up/down

(look on the x-axis)

$f(x) = 2(x - 3)$ → reflect left/right

(look on the y-axis)

Quadratic Eq.

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

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

Vertex Form

$$y = a(x-h)^2 + k$$

→ for parabolas facing up → focus above
vertex at (h, k)

→ for parabolas facing down → focus below
vertex at (h, k)

→ for parabolas facing up → focus above
vertex at (h, k)

$$y = a(x-h)^2 + k$$

→ for parabolas facing down → focus below
vertex at (h, k)



Trigonometry

SOH CAH TOA

TOA SOH CAH

CAH TOA SOH



$$\sin^2 \theta + \cos^2 \theta = 1$$

$$y = A \sin(B(x-h) + k)$$

A is vertical direction, B is amplitude, C is

frequency, D is vertical shift

Complete the cycle for 2π (double the B)

Period = length of complete cycle graph

Amplitude = (max - min) or (max - min)

Amplitude is always positive



Exponential, Logarithm & Decay

Growth: $f(x) = P(1+r)^x$

Decay: $f(x) = P(1-r)^x$

- r is the interest
- P is the amount
- x is the number of periods
- t is the time

Continuous growth: $f(x) = Pe^{rt}$

Continuous decay: $f(x) = Pe^{-rt}$

- r is the interest rate

Half-life: $f(x) = P(0.5)^{x/T}$

Doubling: $f(x) = P(2)^{x/T}$

- T is half-life
- T is doubling time

Compound Interest

$$A = P(1 + \frac{r}{n})^{nt}$$

• n is the number of compounding periods

• t is the time in years

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JL Elias



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