

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

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

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

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

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

$\sqrt{a^2}$ is (positive) $|a|$ only!

$|a|^2$ is a^2 (both positive and negative)

(Both positive and negative)

Change square roots

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

$$= |a| \cdot |b|$$

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 $-$ between a $+$ and $-$ or a $+$ and
two terms $+$ and $-$ or $-$ and $+$

Factoring

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

DOT: DOMS, Difference Factoring, AC
Method Factoring for Quadratics

Binomial & Theorems

$(a+b)^2$ will give the expansion of $(a+b)^2$

$(a+b)^3$ will give a trinomial factor
of $(a+b)^3$

Functions

$f(x) \cdot g(x) = f(x) \cdot g(x)$ (no $+$ or $-$)

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FOILS: $(a+b)(c+d)$ (no $+$ or $-$)

Transforming Functions

$f(x) = f(x) + a$ → shift up by a

$f(x) = f(x) - a$ → shift down by a

$f(x) = f(x + a)$ → shift left by a

$f(x) = f(x - a)$ → shift right by a

$f(x) = -f(x)$ → reflect up/down

(look on the y -axis)

$f(x) = f(-x)$ → reflect left/right

(look on the x -axis)

Quadratic

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

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

Vertex Form

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

h is parallel to the x -axis → looking from
vertex at (h, k)

Focus: Vertex parallel to $(h, k) \pm p$

Directrix: Vertex parallel to $(h, k) \mp p$

$$p = \frac{1}{4a}$$

p is distance from vertex to focus, and
distance to directrix



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 distance to x -axis (amplitude) $2A$
frequency of x (number of cycles)

frequency of x (number of cycles) 2π
vertical distance to x -axis (amplitude)

Amplitude is $|A|$ (distance from x -axis to peak)

Amplitude is change in y



Exponential, Logarithm & Decay

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

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

- r is rate of growth
- r is rate of decay
- r is rate of decay
- r is rate of decay

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

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

- r is rate of decay

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

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

- r is rate of decay
- r is rate of decay

Compound Interest:

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

A is total amount after t years, P is principal, r is rate, n is number of compounding periods per year

Algebra Ii 5 8 Study Guide

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