

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

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

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

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

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

$$a^0 = 1$$

Radicals & Square Roots

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

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

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

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

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

$\sqrt{a^2}$ neither \pm $\sqrt{a^2}$

(Both you and me get it now)

Change square roots

$$\sqrt{a^2 + b^2} = \sqrt{a^2} + \sqrt{b^2} \text{ is wrong!}$$

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

Radicals & Complex Fractions

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

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

Complex Numbers are to the left
of i or $-i$ where i and $-i$ are real
imaginary numbers

Factoring

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

DOT-DOMS: Trinomial Factoring, AC
Method Factoring for Quadratics

Binomial & Theorems

$P(x)$ multiplies the exponents of $\frac{P(x)}{Q(x)}$

$Q(x)$ divides or is a factor
of $P(x)$

Functions

$f(x) \cdot g(x) = f(x) \cdot g(x)$ (not $f(x) \cdot g(x)$)

$f(x) \cdot g(x) = f(x) \cdot g(x)$ (not $f(x) \cdot g(x)$)

$f(x) \cdot g(x) = f(x) \cdot g(x)$ (not $f(x) \cdot g(x)$)

FOILS (order matters)

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

(across the x-axis)

$f(x) = f(-x)$ = reflect left/right

(across the y-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 = facing there
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 = distance from vertex to focus, and
distance to directrix



Trigonometry

SOH CAH TOA

TOA SOH CAH

CAH TOA SOH



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

$$y = A \sin(B(x - C)) + D$$

A is vertical distance to amplitude (to
frequency, B is number of
cycles per unit)

Frequency: $\frac{1}{\text{period}}$ (to B distance to C)

Period: $\frac{1}{\text{frequency}}$ (to B distance to C)

Amplitude: A (to D distance to C)

Algebra 2 Study Packet

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