

# 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

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

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

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

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

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

$|a|^2 = a^2$  (either  $a$  or  $-a$ )

(Both you and me get 4 out)

Change square roots

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

### 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  $\pm$  or either  $a$  and  $b$  or  $a$  and  
imaginary numbers  $i$  or  $-i$

### Factoring

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

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

### Binomial & Theorems

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

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

### Functions

$f(x) \cdot g(x) = f(x) \cdot g(x)$  (e.g.  $f(x) = 1000$ )

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FOILS:  $(x+y)(x+y)$

### 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 marks)

$f(x) = f(x) \cdot a$  → reflect left/right

(Look on the points)

### 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  $x$  → looking from  
vertex at  $(h, k)$

Look: Vertex coordinates at  $(h, k)$  →  $(h, k)$

Coordinate related parabola/point

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

$h$  is  $x$ -coordinate to vertex, and  
coordinate to distance



### 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) →

frequency of  $x$  → number of  $x$

Complete the cycle for  $2\pi$  →  $2\pi/B$

Vertical distance to  $x$ -axis (midline) →  $k$

Amplitude of  $\sin$  →  $1$  →  $2(1) = 2$  →  $2$

Amplitude to change position



### 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
- $t$  is time period

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

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

- $r$  is rate of growth

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:

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

$A$  is total amount,  $P$  is principal,  $r$  is rate,  
 $n$  is number of compounding periods,  
 $t$  is time

# Jan 2015 Trig Regents Answers Explained

**Rose Army**



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