

# Algebra 2 & Trigonometry Regents Review Sheet

Regents Date (Fill in):

Wednesday June 18<sup>th</sup>, 11am

## Factoring:

Look to see if there is a GCF (protect common factor) first.  $ab+ac = a(b+c)$

$$x^2 - a^2 = (x-a)(x+a)$$

$$(x+a)^2 = x^2 + 2ax + a^2$$

$$(x-a)^2 = x^2 - 2ax + a^2$$

## Factor by Grouping:

$$x^3 + 2x^2 - 3x - 6$$

$$(x^3 + 2x^2) + (-3x - 6) \text{ group}$$

$$x^2(x+2) - 3(x+2) \text{ factor each}$$

$$(x^2 - 3)(x+2) \text{ factor}$$

## Exponentials: $e^x = \exp(x)$

$$b^x = b^y \rightarrow x = y \quad (b > 0 \text{ and } b \neq 1)$$

If the bases are the same, set the exponents equal and solve.

## Solving exponential equations:

1. Isolate exponential expression.

2. Take log or ln of both sides.

3. Solve for the variable.

ln(x) and  $e^x$  are inverse functions

$$\ln e^x = x \quad e^{\ln x} = x$$

$$\ln e = 1 \quad e^{\ln 4} = 4$$

$$e^{\ln x} = e^{\ln y} = y$$

## Quadratic Equations: $ax^2 + bx + c = 0$ (a ≠ 0)

Solve by factoring, completing the square, quadratic formula.

$$b^2 - 4ac > 0 \text{ two real unequal roots}$$

$$b^2 - 4ac = 0 \text{ repeated real roots}$$

$$b^2 - 4ac < 0 \text{ two complex roots}$$

Square root property: If  $x^2 = a$ , then  $x = \pm\sqrt{a}$

Completing the square:  $x^2 + 2x + 5 = 0$

1. If other than one, divide by coefficient of  $x^2$

2. Move constant term to other side:  $x^2 + 2x = -5$

3. Take half of coefficient of x, square it, add to both sides

$$x^2 + 2x + 1 = -5 + 1$$

4. Factor perfect square on left side:  $(x+1)^2 = -4$

5. Use square root property to solve and get two answers:  $x = -1 \pm 2i$

Sum of roots:  $x_1 + x_2 = -\frac{b}{a}$  Product of roots:  $x_1 x_2 = \frac{c}{a}$

Inequalities:  $x^2 + x - 12 \leq 0$  Change to  $=$ , factor, locate critical points on number line, check each section.

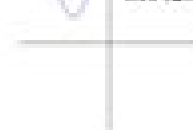
$$(x+4)(x-3) = 0$$

$$x = -4, x = 3$$



ANSWER:  $-4 \leq x \leq 3$  or  $[-4, 3]$  (in interval notation)

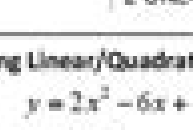
IMAGINARY Roots



EQUAL Roots



2 UNEQUAL Roots



Variations: always involves the constant of proportionality, k. Find k, and then proceed.

Direct variations:  $y = kx$

Inverse variations:  $y = \frac{k}{x}$

Varies jointly:  $y = kxy$

Combo: Some vary directly with something and inversely with something else.

$$y = \frac{ky}{x}$$

## Radical Equations

1. Isolate the radical

2. Square BOTH sides

3. Solve for x.

OR

Solve GRAPHICALLY!

Left side into Y1, right side into Y2

Zoom Standard (ZST)

## Logarithms

$$y = \log_b x \Leftrightarrow x = b^y$$

$\ln x = \log_e x$  natural log

$e \approx 2.71828$

$\log x = \log_{10} x$  common log

Change of base formula:

$$\log_b a = \frac{\log a}{\log b}$$

## Properties of Logs:

$$\log_b b = 1 \quad \log_b 1 = 0$$

$$\log_b(mn) = \log_b m + \log_b n$$

$$\log_b\left(\frac{m}{n}\right) = \log_b m - \log_b n$$

$$\log_b(m^r) = r \log_b m$$

$$\log_b a = \frac{\log a}{\log b}$$

$$\log_b x \text{ as } x > 0$$

Inequalities:  $x^2 + x - 12 \leq 0$  Change to  $=$ , factor, locate critical points on number line, check each section.

$$(x+4)(x-3) = 0$$

$$x = -4, x = 3$$



ANSWER:  $-4 \leq x \leq 3$  or  $[-4, 3]$  (in interval notation)

## Absolute Values

Equations:

Set up 2 cases:

Positive case (copy over as is)  $x = 2$

Negative case: set = to negation of each term on the right

Inequalities:

Set up 2 cases:

Positive case (copy over as is)

Negative case: set = to negation of each term on the right

Ex.

$$|2x-1| < x+1$$

$$2x-1 < x+1$$

$$x < 2$$

$$0 < x < 2$$

$$2x-1 > -x-1$$

$$3x > 0$$

Less than arrows in towards each other "AND"  
Greater than arrows away from each other "OR"

## Solving Linear/Quadratic Systems:

$$y = 2x^2 - 6x + 5$$

$$y - 2 = x$$

1. Set both equations to "y=" form.

2. Then set both equations equal to each other.

3. Solve the remaining quadratic equation for the x values.

4. Substitute x back in to find y values.

$$2x^2 - 6x + 5 = x + 2$$

$$2x^2 - 7x + 3 = 0$$

$$(2x-1)(x-3) = 0$$

$$x = \frac{1}{2}, x = 3$$

$$y = 2.5, y = 5$$

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**Lawrence S. Leff**



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