## Algebra 2 & Trigonometry Regents Review Sheet

Regents Date (Fill in): Wednesday June 18th, 11am

### Factoring:

Look to see if there is a GCF (parent) cousses facted fact. ab+ac=a(b+c).

$$x^{1} - a^{2} = (x - a)(x + a)$$
  
 $(x + a)^{2} = x^{2} + 3ax + a^{2}$ 

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

Factor by Grosping:



Variations: shows involve the courses of proportionality. A. Find h. and then proceed.

Direct variations is with

Inverse variations to wa-

Various goingly: y w high

Combo: Sales year directly with advertising and inversely with mody earl.

Exponentials of - exp(s)

 $b' \rightarrow b' \rightarrow x = x + (b > 0)$  and b = D. If the boxes are the same, set the exponents egod and solve.

Solving exponential equations:

 Isolate exponential expression. 2. Take for or in of both sides.

8. Solve for the curishte.

In(x) and a are inverse functions

### Radical Equations

- 1. Isolate the radical
- 2. Sousse BOTH sides.
- B. Solver for x...

Solve GRAPHICALLY!

Left side into Y1, right side into Y2 Shore Standard (MS)

Quadratic Equations: ac + ln + c = 0 (Set = 0.)

Solve by factoring, completing the source, quadratic formula.

$$x = \frac{-6 \pm \sqrt{b^2 - 4ac}}{2a}$$

 $b^2 = 4ac > 0$  two used unsected scotts.  $b^2 - 4ac = 0$  repeated real econs.

$$b^2 - 4 \Delta r < 0$$
 two complex roots.

Somes root property: If x' = w, then x = ±\for

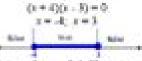
Completing the square:  $x^2 - 2x - 5 = 0$ 

- 1. If other than one, divide by coefficient of a
- Money assessment topograph, or log vides in the in Proceedings.
- 3. Take half of coefficient of a square in add to both sides.

- 4. Factor perfect course on left tide (x-1) = 6.
- Una construction continuers to solve and not two numbers. In w 12 √6.

Sum of roots:  $n_1 + n_2 = -\frac{b}{a}$  Product of roots:  $n_2 + n_3 = -\frac{c}{a}$ 

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



-4 < x ≤ 1 or .5-4. III the interval monotonic







### Logarithma

$$y = \log_{x} x \Leftrightarrow x = b^{x}$$

in a whole, a month log-

www.375828..... log x = log., x common log.

Chaigs of hose formula log, a - log a

Properties of Logic

los. 5 + 1 los. 1 + 0

 $\log_{1}(mn) = \log_{1} m = \log_{2} n$ 

log, = log, m-log, n

 $\log_{10}(m') = r \log_{10} m$ Domain:  $\log_{10} x \approx x > 0$ 

Positive case (copy over as is) x = 2

 $g_{\mathbf{x}}[2x-1] = x+1$ 

2x-1=x+1 2x-1=-x-1

Negative case: set > to negation of each term, on the right.

### Inequalities:

Equations:

Setting 2 category

Absolute Values

Set up 2 cases:

Positive case (copy over as is):

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

$$(x + 4)(x - 5) = 0$$

$$x = -4; x = 3$$
ide to the table

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

\*CHECK all answers!

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

Ex. 
$$|2x-1| < x+1$$
  
 $2x-1 < x+1$   $2x-1 > -x-1$   
 $x < 2$   $3x > 0$   
 $0 < x < 2$ 

Lead Obains, Arribani Inc. timesents and highligh Greater their action away book each. ether 'CHI'

# Solving Linear/Quadratic Systems:

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

- 1.5et both equations to "y=" form. 2. Then set both equations equal to each other.
- 3.5olve the remaining quadratic equation for the x values.
- 4. Substitute x back in to find y values.

$$2x^2 - 6x + 5 - x + 2$$
  
 $2x^2 - 7x + 3 - 0$ 

$$x-\frac{1}{2},x+3$$

y = 2.5, y = 3

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**KJ Lindholm-Leary** 

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