

Algebra 2 & Trigonometry Regents Review Sheet

Regents Date (Fill in):

Wednesday June 18th, 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

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

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

$$e^{\ln x} = e^{\ln 4} = 4$$

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: Solve vary directly with identifying and inversely with easily work.

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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 = 2.71828...

log x = log₁₀ x common log

Change of base formula:

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

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

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

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

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

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Properties of Logs:

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

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

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

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

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Absolute Values

$$\text{Ex. } |2x-1| = x+1$$

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.

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

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

$$x < 2$$

$$2x-1 > -(x+1)$$

$$3x > 0$$

$$0 < x < 2$$

$$\text{Ex. } |2x-1| = x+1$$

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

$$2x-1 = -x-1$$

$$3x = 0$$

$$x = 0$$

$$x = 0$$

$$x = 0$$

$$x = 0$$

$$x = 0$$

$$x = 0$$

$$x = 0$$

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$$x = 0$$

$$x = 0$$

*CHECK all answers!

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

Solving Linear/Quadratic Systems:

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

$$y - 2 = x$$

$$y - 2 = x$$

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.

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

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

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

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

$$y = 2.5, y = 5$$

$$y = 2.5, y = 5$$

$$y = 2.5, y = 5$$

$$y = 2.5, y = 5$$

$$y = 2.5, y = 5$$

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David Kirk



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web earthworm dissection lab answers worms do many of the things humans do to survive they breathe move around reproduce and eat worms have the epidermis which is like our skin a layer of nerve tissue which acts like our sense of touch instead of having just one heart they have five hearts

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web 1 find the anterior front end of the earthworm by locating the fleshy bump over its mouth called the prostomium the posterior back end has a small hole where solid waste is expelled called the anus the length of the worm is made up of many tiny segments each separated by a thin wall called a septum 2

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web 1 0 35 annuli what phylum does the earthworm belong to how did this phylum get its name 2 1 01 setae where are setae located and what do they resemble how does the setae enable the earthworm to move 3 1 39 clitellum what is the function of the clitellum

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web dissect the earthworm as described in case of general anatomy after exposing the alimentary canal remove the blood vessels hearts blood glands muscles etc from above and around the alimentary canal now locate the buccal cavity 2nd segment pharynx 3rd to 5th oesophagus 6th 7th gizzard 8th 9th stomach 10th 15th and

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