

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:

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

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

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

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

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

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

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

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

Quadratic Equations: $ax^2 + bx + c = 0$ ($a \neq 0$)

Solve by factoring, completing the square, quadratic formula.

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

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

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

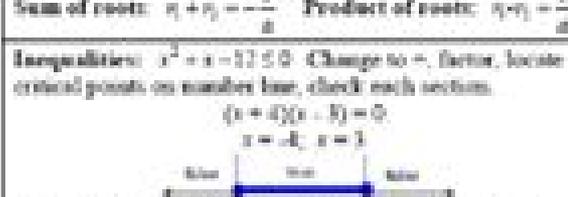
Square root property: If $x^2 = a$, then $x = \pm\sqrt{a}$

Completing the square: $x^2 - 2x - 3 = 0$

1. If other than one, divide by coefficient of x^2
2. Move constant term to other side $x^2 - 2x = 3$
3. Take half of coefficient of x , square it, add to both sides $x^2 - 2x + 1 = 3 + 1$
4. Factor perfect square on left side $(x-1)^2 = 4$
5. Use square root property to solve and get two answers. $x = 1 \pm 2$

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.



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 adjoining and inversely with each other.

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

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 (ZM)

Logarithms

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

$$\ln x = \log_e x \text{ natural log}$$

$$e = 2.71828$$

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

Change of base formula:

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

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

Properties of Logs:

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

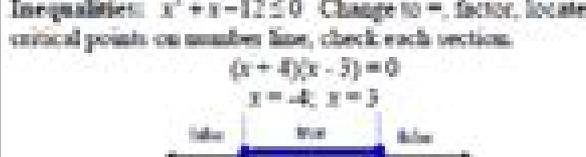
$$\log_b (mn) = \log_b m + \log_b n$$

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

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

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

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



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

Absolute Values

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

Equations:

Set up 2 cases:

$$\text{Positive case (copy over as is)} \quad 2x-1 = x+1$$

$$\text{Negative case: set = to negation of each term, on the right} \quad 2x-1 = -x-1$$

Inequalities:

Set up 2 cases:

Positive case (copy over as is)

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

Ex.

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

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

$$x < 2$$

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

$$3x > 0$$

$$0 < x < 2$$

*CHECK all answers!

Less than: arrows in towards each other "AND"
Greater than: arrows in 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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Sebastian Brünink



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Table of Contents Good Notes For Algebra 2 Cheat Sheet

1. Understanding the eBook Good Notes For Algebra 2 Cheat Sheet
 - The Rise of Digital Reading Good Notes For Algebra 2 Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Good Notes For Algebra 2 Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Good Notes For Algebra 2 Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Good Notes For Algebra 2 Cheat Sheet
 - Personalized Recommendations
 - Good Notes For Algebra 2 Cheat Sheet User Reviews and Ratings
 - Good Notes For Algebra 2 Cheat Sheet and Bestseller Lists

5. Accessing Good Notes For Algebra 2 Cheat Sheet Free and Paid eBooks
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 - Good Notes For Algebra 2 Cheat Sheet Compatibility with Devices
 - Good Notes For Algebra 2 Cheat Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Good Notes For Algebra 2 Cheat Sheet
 - Highlighting and Note-Taking Good Notes For Algebra 2 Cheat Sheet
 - Interactive Elements Good Notes For Algebra 2 Cheat Sheet
8. Staying Engaged with Good Notes For Algebra 2 Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Good Notes For Algebra 2 Cheat Sheet
9. Balancing eBooks and Physical Books Good Notes For Algebra 2 Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Good Notes For Algebra 2 Cheat Sheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Good Notes For Algebra 2 Cheat Sheet
 - Setting Reading Goals Good Notes For Algebra 2 Cheat Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Good Notes For Algebra 2 Cheat Sheet
 - Fact-Checking eBook Content of Good Notes For Algebra 2 Cheat Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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