

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

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

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

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

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.

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

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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

$e \approx 2.71828$

log x = log₁₀ x common log

Change of base formula

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

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

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

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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

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

$$2x-1 = x+1 \quad 2x-1 = -x-1$$

$$x = 2 \quad 3x = 0$$

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.

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

$$2x-1 < x+1 \quad 2x-1 > -x-1$$

$$x < 2 \quad 3x > 0$$

$$0 < x < 2$$

$$0 < x < 2$$

$$0 < x < 2$$

$$0 < x < 2$$

$$0 < x < 2$$

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

Solving Linear/Quadratic Systems:

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

$$y - 2 = x$$

$$y - 2 = x$$

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$$y - 2 = x$$

$$y - 2 = x$$

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Inequalities: $x^2 + x - 12 \leq 0$ Change to $=$, factor, locate

critical points on number line, check each section.

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



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

Algebra 2 Trig Regents Study Guide

Anthony S. Fauci



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Table of Contents Algebra 2 Trig Regents Study Guide

1. Understanding the eBook Algebra 2 Trig Regents Study Guide
 - The Rise of Digital Reading Algebra 2 Trig Regents Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Trig Regents Study Guide
 - 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 Algebra 2 Trig Regents Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Trig Regents Study Guide
 - Personalized Recommendations
 - Algebra 2 Trig Regents Study Guide User Reviews and Ratings
 - Algebra 2 Trig Regents Study Guide and Bestseller Lists
5. Accessing Algebra 2 Trig Regents Study Guide Free and Paid eBooks
 - Algebra 2 Trig Regents Study Guide Public Domain eBooks
 - Algebra 2 Trig Regents Study Guide eBook Subscription Services
 - Algebra 2 Trig Regents Study Guide Budget-Friendly Options

6. Navigating Algebra 2 Trig Regents Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 2 Trig Regents Study Guide Compatibility with Devices
 - Algebra 2 Trig Regents Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2 Trig Regents Study Guide
 - Highlighting and Note-Taking Algebra 2 Trig Regents Study Guide
 - Interactive Elements Algebra 2 Trig Regents Study Guide
8. Staying Engaged with Algebra 2 Trig Regents Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2 Trig Regents Study Guide
9. Balancing eBooks and Physical Books Algebra 2 Trig Regents Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 Trig Regents Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Algebra 2 Trig Regents Study Guide
 - Setting Reading Goals Algebra 2 Trig Regents Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Algebra 2 Trig Regents Study Guide
 - Fact-Checking eBook Content of Algebra 2 Trig Regents Study Guide
 - 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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