

Algebra 2 – Things to Remember!



Exponents:

$$x^0 = 1 \quad x^{-a} = \frac{1}{x^a}$$

$$x^a \cdot x^b = x^{a+b} \quad (x^a)^b = x^{a \cdot b}$$

$$\frac{x^a}{x^b} = x^{a-b} \quad \left(\frac{x}{y}\right)^a = \frac{x^a}{y^a}$$

$$(xy)^a = x^a \cdot y^a$$

Complex Numbers:

$$\sqrt{-1} = i \quad \sqrt{-a} = i\sqrt{a}; a \geq 0$$

$$i^2 = -1 \quad i^4 = i^2 \cdot i^2 = -1 \text{ divide exponent by 4, use remainder, solve.}$$

$$(a+bi) \text{ conjugate } (a-bi)$$

$$(a+bi)(a-bi) = a^2 + b^2$$

$$|a+bi| = \sqrt{a^2 + b^2} \text{ absolute value=magnitude}$$

Logarithms

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

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

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

$$e = 2.71828...$$

$$\text{Change of base formula:}$$

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

Properties of Logs:

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

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

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

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

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

Factoring:

Look to see if there is a GCF (greatest 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:

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

x³ x² x¹ x⁰

(x³ + 2x²) - (3x + 6) group

x²(x+2) - 3(x+2) factor each

(x² - 3)(x+2) 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

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

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

$$e^{2\ln 3} = e^{\ln 9} = 9$$

Quadratic Equations: $ax^2 + bx + c = 0$ (Set = 0.)

Solve by factoring, completing the square, quadratic formula.

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

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

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

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

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

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 $x^2 - 2x + \boxed{1} = 5 + \boxed{1}$
4. Factor perfect square on left side. $(x-1)^2 = 6$
5. Use square root property to solve and get two answers. $x = 1 \pm \sqrt{6}$

Sum of roots: $r_1 + r_2 = -\frac{b}{a}$ Product of roots: $r_1 \cdot r_2 = \frac{c}{a}$

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

Direct variation: $y = kx$

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

Varies jointly: $y = kxy$

Combo: Sales vary directly with advertising and inversely with candy cost.

$$y = \frac{ka}{c}$$

Absolute Value: $|x| > 0$

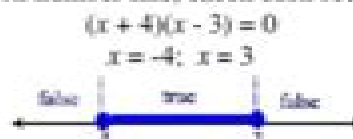
$$|a| = \begin{cases} a; & a \geq 0 \\ -a; & a < 0 \end{cases}$$

$$|m| = b \Rightarrow m = -b \text{ or } m = b$$

$$|m| < b \Rightarrow -b < m < b$$

$$|m| > b \Rightarrow m > b \text{ or } m < -b$$

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



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

Algebra 2 Reference Guide Problem Set

Manhattan Prep



Algebra 2 Reference Guide Problem Set:

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OMNITAB II User's Reference Manual David Hogben, Sally T. Peavy, Ruth N. Varner, 1971

Resources in Education, 2001-04

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Numerical Methods In Engineering & Science Carl .E. Pearson, 1986-05-01 This book is designed for an introductory course in numerical methods for students of engineering and science at universities and colleges of advanced education

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Table of Contents Algebra 2 Reference Guide Problem Set

1. Understanding the eBook Algebra 2 Reference Guide Problem Set
 - The Rise of Digital Reading Algebra 2 Reference Guide Problem Set
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Reference Guide Problem Set
 - 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 Reference Guide Problem Set
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Reference Guide Problem Set
 - Personalized Recommendations
 - Algebra 2 Reference Guide Problem Set User Reviews and Ratings

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