

Algebra 2 Semester 1 Final Exam Review Packet

Chapter 1: Equations and Inequalities

1.1 Evaluate variable expressions using order of operations (no calculator)

1) Evaluate: $a^2 - bc + b^2$ if $a = -5$, $b = -2$, $c = 4$

$$(-5)^2 - (-2)(4) + (-2)^2$$
$$25 + 8 + 4 = 35$$

1.3 Solve equations (no calculator)

Define variables, write and solve equations for word problems

2) Six less than half an unknown number is 3 more than twice the number. Find the number.

$x = \text{THE NUMBER}$

$$2\left(\frac{1}{2}x - 6\right) = (2x + 3)2$$
$$x - 12 = 4x + 6$$
$$-18 = 3x$$
$$-6 = x$$

1.4 Evaluate expressions involving absolute values (no calculator)

Solve absolute value equations (no calculator)

3) Evaluate: $-|a^3 - 5a|$ if $a = -3$

$$-|(-3)^3 - 5(-3)| =$$
$$-|-27 + 15| =$$
$$-|-12| = \boxed{-12}$$

4) Solve: $|3x - 4| = 11$ (There are two solutions!)

$$3x - 4 = 11 \quad \text{OR} \quad -(3x - 4) = 11$$
$$3x = 15 \quad \quad \quad -3x + 4 = 11$$
$$-3x = 7$$
$$x = 5 \quad \text{OR} \quad x = -\frac{7}{3}$$

1.5 Graph compound inequalities

Solve and graph absolute value inequalities (no calculator)

5) Solve and graph the solution: $|3x - 2| < 7$

$$3x - 2 < 7 \quad \text{AND} \quad -(3x - 2) < 7$$
$$3x < 9 \quad \quad \quad -3x + 2 < 7$$
$$x < 3 \quad \quad \quad \frac{-3x}{-3} < \frac{5}{-3}$$
$$x > -\frac{5}{3}$$

$$x < 3 \quad \text{AND} \quad x > -\frac{5}{3}$$

$$-\frac{5}{3} < x < 3$$



6) Graph the solution to $x \geq 2$ or $x < -1$

OR MEANS UNION. INCLUDE ALL POINTS



Algebra 2 Semester 2 Packet Review Answers

Mary Jane Sterling



Algebra 2 Semester 2 Packet Review Answers:

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Table of Contents Algebra 2 Semester 2 Packet Review Answers

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

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