

Algebra II Lesson 17 - Solving equations involving absolute value.

1. Solve $|x + 2| \leq 2$. Graph the solution.

conjunction

$$\begin{aligned} -2 &\leq x + 2 \leq 2 \\ -4 &\leq x \leq 0 \end{aligned}$$

2. Solve $|x - 3| = 8$. Graph the solution.

$$\begin{aligned} x - 3 &= -8 \quad \text{or} \quad x - 3 = 8 \\ x &= -5 \quad \text{or} \quad x = 11 \end{aligned}$$

3. Solve $|4x - 8| - 4 = -20$

$$|4x - 8| = -16$$

↑ Neg
#

AbsVal can never
be Neg $\therefore \emptyset$

4. Solve $|2x + 63| = 11x$. Check for extraneous solutions.

$$\begin{aligned} 2x + 63 &= -11x \\ 63 &= -13x \\ x &= \cancel{-\frac{63}{13}} \text{ ER} \end{aligned} \qquad \begin{aligned} 2x + 63 &= 11x \\ 63 &= 9x \\ x &= \boxed{7} \end{aligned}$$

5. Solve $|5x| - 1 \leq 8$.

$$\begin{aligned} |5x| &\leq 9 \\ -9 &\leq 5x \leq 9 \end{aligned} \qquad \begin{aligned} -\frac{9}{5} &\leq x \leq \frac{9}{5} \end{aligned}$$

6. What are the solutions of $|4x - 2| - 5 \geq 5$?

$$|4x - 2| \geq 10$$

$$4x - 2 \leq -10 \quad \text{or} \quad 4x - 2 \geq 10$$

$$4x \leq -8 \quad \text{or} \quad 4x \geq 12$$

$$x \leq -2 \quad \text{or} \quad x \geq 3$$

7. Solve $2|5x| + 4 \leq 7$.

$$\begin{aligned} 2|5x| &\leq 3 \\ |5x| &\leq \frac{3}{2} \end{aligned}$$

$$-\frac{3}{2} \leq 5x \leq \frac{3}{2}$$

$$-\frac{3}{10} \leq x \leq \frac{3}{10}$$

Answers On Algebra In Odyssey

Ian Pickup

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Homer's Odyssey, books XXI-XXIV Homer,1883

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Table of Contents Answers On Algebra In Odyssey

1. Understanding the eBook Answers On Algebra In Odyssey
 - The Rise of Digital Reading Answers On Algebra In Odyssey
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers On Algebra In Odyssey
 - 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 Answers On Algebra In Odyssey
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers On Algebra In Odyssey
 - Personalized Recommendations
 - Answers On Algebra In Odyssey User Reviews and Ratings
 - Answers On Algebra In Odyssey and Bestseller Lists

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