

# Solving Log & Exp Equations Worksheet

2.  $\log_3 (3x-2) = 2$

$$3^2 = 3x-2$$

$$11 = 3x$$

$$x = \frac{11}{3} \checkmark$$

4.  $\log_5 (x^2+x+4) = 2$

$$5^2 = x^2+x+4$$

$$0 = x^2+x-21$$

$$x = \frac{-1 \pm \sqrt{1-4(1)(-21)}}{2}$$

$$x = \frac{-1 \pm \sqrt{85}}{2}$$

$$x = \frac{-1 + \sqrt{85}}{2} \checkmark$$

$$x = \frac{-1 - \sqrt{85}}{2}$$

6.  $-2\log_4 X = \log_4 9$

$$\log_4 x^{-2} = \log_4 9$$

$$x^{-2} = 9$$

$$\frac{1}{x^2} = 9$$

$$9x^2 = 1$$

$$x^2 = \frac{1}{9}$$

$$x = \pm \frac{1}{3} \quad \begin{matrix} \swarrow \frac{1}{3} \checkmark \\ \searrow \frac{1}{3} \end{matrix}$$

8.  $3\log_2 X = -\log_2 27$

$$\log_2 x^3 = \log_2 \frac{1}{27}$$

$$x^3 = \frac{1}{27}$$

$$\boxed{x = \frac{1}{3}} \checkmark$$

10.  $2\log_3 (x+4) - \log_3 9 = 2$

$$\log_3 \left( \frac{(x+4)^2}{9} \right) = 2$$

$$9 = \frac{(x+4)^2}{9}$$

$$81 = (x+4)^2$$

$$\pm 9 = x+4$$

$$\boxed{x = 5} \quad x = -13$$

12.  $\log_4 X + \log_4 (x-3) =$

$$\log_4 (x^2-3x) = 1$$

$$x^2-3x = 4$$

$$x^2-3x-4 = 0$$

$$(x-4)(x+1) = 0$$

$$\boxed{x = 4} \quad x = -1$$

# Logarithm Inequalities Answer Key

**Padhraic Smyth**



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## **Table of Contents Logarithm Inequalities Answer Key**

1. Understanding the eBook Logarithm Inequalities Answer Key
  - The Rise of Digital Reading Logarithm Inequalities Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Logarithm Inequalities Answer Key
  - 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 Logarithm Inequalities Answer Key
  - User-Friendly Interface

4. Exploring eBook Recommendations from Logarithm Inequalities Answer Key
  - Personalized Recommendations
  - Logarithm Inequalities Answer Key User Reviews and Ratings
  - Logarithm Inequalities Answer Key and Bestseller Lists
5. Accessing Logarithm Inequalities Answer Key Free and Paid eBooks
  - Logarithm Inequalities Answer Key Public Domain eBooks
  - Logarithm Inequalities Answer Key eBook Subscription Services
  - Logarithm Inequalities Answer Key Budget-Friendly Options
6. Navigating Logarithm Inequalities Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Logarithm Inequalities Answer Key Compatibility with Devices
  - Logarithm Inequalities Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Logarithm Inequalities Answer Key
  - Highlighting and Note-Taking Logarithm Inequalities Answer Key
  - Interactive Elements Logarithm Inequalities Answer Key
8. Staying Engaged with Logarithm Inequalities Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Logarithm Inequalities Answer Key
9. Balancing eBooks and Physical Books Logarithm Inequalities Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Logarithm Inequalities Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Logarithm Inequalities Answer Key
  - Setting Reading Goals Logarithm Inequalities Answer Key
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Logarithm Inequalities Answer Key
  - Fact-Checking eBook Content of Logarithm Inequalities Answer Key
  - 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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