

Solve each equation or inequality. Round to four decimal places

$$1. \ln(x+2) = 3$$

$$e^{\ln(x+2)} = e^3$$

$$x+2 = e^3 = 20.0855$$

$$x = 18.0855$$

$$3. \ln(-2x) = 7$$

$$e^{\ln(-2x)} = e^7$$

$$-2x = 1096.6332$$

$$x = -548.3166$$

$$2. 5e^{5x} + 1 \geq 7$$

$$5e^{5x} \geq 6$$

$$e^{5x} \geq \frac{6}{5}$$

$$\ln e^{5x} \geq \ln \frac{6}{5}$$

$$5x \geq .1823, x \geq .0365$$

$$4. -3e^x + 10 < 8$$

$$-10 -10$$

$$-3e^x < -2$$

$$e^x > \frac{2}{3}$$

$$\ln e^x > \ln \frac{2}{3}$$

$$x > \ln \frac{2}{3}$$

$$x > -.4055$$

$$5. \text{ Write an equivalent logarithmic equation for } e^4 = 8x.$$

$$\ln 8x = 4$$

$$6. \text{ Evaluate } e^{\ln 2x}.$$

$$e^{\ln 2x} = 2x$$

7. A substance decays according to the equation $y = ae^{-0.1216t}$, where t is in years. Find the half-life of the substance. Round to the nearest tenth.

$$\frac{1}{2}a = ae^{-0.1216t}$$

$$0.5 = e^{-0.1216t}$$

$$\ln 0.5 = \ln e^{-0.1216t}$$

$$\ln 0.5 = -.1216t$$

$$t = \frac{\ln 0.5}{-.1216} = 5.7002$$

$$t = 5.7 \text{ years}$$

8. A piece of machinery valued at \$250,000 depreciates at a fixed rate of 12% per year. After how many years will the value have depreciated to \$100,000?

$$100,000 = 250,000(1-.12)^t$$

$$.4 = .88^t$$

$$\log .4 = \log .88^t$$

$$\log .4 = t \log .88$$

$$t = \frac{\log .4}{\log .88}$$

$$t = 7.1679$$

$$t = 7.2 \text{ years}$$

$$y = a(1-r)^t$$

$$a = 250,000$$

$$y = 100,000$$

$$r = 12\% = .12$$

9. The Smiths bought a house worth \$400,000. Assuming that the house will appreciate 5.6% per year, what will the house be worth in twelve years? Round to the nearest dollar.

$$y = a(1+r)^t$$

$$a = 400,000$$

$$r = 5.6\% = .056$$

$$t = 12$$

$$y = 400,000(1+.056)^{12}$$

$$= 400,000(1.056)^{12}$$

$$= 769178.2756$$

$$= \$769,178$$

10. A certain strain of bacteria grows from 40 to 326 in 120 minutes. Find the constant k for this type of bacteria, then write the equation for modeling this exponential growth.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

$$t = 120 \text{ min}$$

$$326 = 40e^{k \cdot 120}$$

$$8.15 = e^{120k}$$

$$\ln 8.15 = \ln e^{120k}$$

$$\ln 8.15 = 120k$$

$$k = \frac{\ln 8.15}{120} = .0175$$

$$y = ae^{.0175t}$$

Algebra 2 Lesson 7 Answer Key

JA Banks



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Homework Helpers: Algebra Denise Szecsei, 2025-09-12 Homework Helpers Algebra is a straightforward and easy to read review of arithmetic skills emphasizes the role that arithmetic plays in the development of algebra covering all of the topics in a typical Algebra I class including Solving linear equalities and inequalities Solving systems of linear equations Factoring polynomials Graphing functions Working with rational functions Solving quadratic equations Understanding word problems Homework Helpers Algebra will help build a solid mathematical foundation and enable students to gain the confidence they need to study Algebra II This book also contains a summary of important formulas for easy reference

Jousting Armadillos: An Introduction to Algebra - Answer Book and Tests , *Algebra II Tm' 2001 Ed.* ,
Algebra (2 Year Handbook) Prentice Hall, 2002-06 **Roadmap to the Grade 10 FCAT Mathematics** Princeton
Review, 2002-11 Prepares students for the Florida Comprehensive Assessment Test FCAT *Advanced Algebra* , 1958

Children's Books in Print, 2007 , 2006 *Algebra: Themes, Tools, Concepts -- Teachers' Edition* Henri Picciotto, Anita
Wah, 1994 **SAT Math Workbook: Up-to-Date Practice for the Digital Exam** Barron's Educational Series, Lawrence S.
Leff, 2024-08-06 This is an intensive preparation for the SAT math sections It includes an overview of the digital SAT
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Review (Firm), 2005

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Table of Contents Algebra 2 Lesson 7 Answer Key

1. Understanding the eBook Algebra 2 Lesson 7 Answer Key
 - The Rise of Digital Reading Algebra 2 Lesson 7 Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Lesson 7 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 Algebra 2 Lesson 7 Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Lesson 7 Answer Key
 - Personalized Recommendations
 - Algebra 2 Lesson 7 Answer Key User Reviews and Ratings
 - Algebra 2 Lesson 7 Answer Key and Bestseller Lists
5. Accessing Algebra 2 Lesson 7 Answer Key Free and Paid eBooks
 - Algebra 2 Lesson 7 Answer Key Public Domain eBooks
 - Algebra 2 Lesson 7 Answer Key eBook Subscription Services
 - Algebra 2 Lesson 7 Answer Key Budget-Friendly Options
6. Navigating Algebra 2 Lesson 7 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 2 Lesson 7 Answer Key Compatibility with Devices
 - Algebra 2 Lesson 7 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2 Lesson 7 Answer Key
 - Highlighting and Note-Taking Algebra 2 Lesson 7 Answer Key
 - Interactive Elements Algebra 2 Lesson 7 Answer Key
8. Staying Engaged with Algebra 2 Lesson 7 Answer Key

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Algebra 2 Lesson 7 Answer Key
- 9. Balancing eBooks and Physical Books Algebra 2 Lesson 7 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 Lesson 7 Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra 2 Lesson 7 Answer Key
 - Setting Reading Goals Algebra 2 Lesson 7 Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra 2 Lesson 7 Answer Key
 - Fact-Checking eBook Content of Algebra 2 Lesson 7 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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