

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.

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

$$a = 400,000$$

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

$$t = 12$$

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

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

$$= 769,178.2756$$

$$= \$769,178$$

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.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

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

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

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

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

$$\ln 8.15 = 120k$$

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

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

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**Sasha Hu**



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### **Table of Contents Advanced Algebra 2 Lesson Master Answers**

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

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