

## Algebra II

Name Key

## Worksheet 10.5-10.6 Date \_\_\_\_\_

Period \_\_\_\_\_

Solve each equation or inequality. Round to four decimal places

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

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

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

$$x = 18.0855$$

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

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

$$-2x = e^7 = 1096.6332$$

$$x = -548.3166$$

5. Write an equivalent logarithmic equation for  $e^x = 8x$ . 6. Evaluate  $e^{ln 2x}$ .

$$\ln 8x = 4$$

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

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.

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

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

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

$$\ln 0.5 = -0.1216t$$

$$t = \frac{\ln 0.5}{-0.1216} = 5.7002$$

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

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?

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

$$- .4 = .88^t$$

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

$$\frac{1}{\log .4} = t \log .88$$

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

$$t = 7.1679$$

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

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

$$a = 250,000$$

$$y = 100,000$$

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

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.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

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

$$326 = 40e^{kt}$$

$$8.15 = e^{kt}$$

$$\ln 8.15 = \ln e^{kt}$$

$$\ln 8.15 = 120k$$

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

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

# Algebra 1 Lesson 9 6 Practice Answers

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## **Table of Contents Algebra 1 Lesson 9 6 Practice Answers**

1. Understanding the eBook Algebra 1 Lesson 9 6 Practice Answers
  - The Rise of Digital Reading Algebra 1 Lesson 9 6 Practice Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 1 Lesson 9 6 Practice 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 1 Lesson 9 6 Practice Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 1 Lesson 9 6 Practice Answers
  - Personalized Recommendations
  - Algebra 1 Lesson 9 6 Practice Answers User Reviews and Ratings
  - Algebra 1 Lesson 9 6 Practice Answers and Bestseller Lists
5. Accessing Algebra 1 Lesson 9 6 Practice Answers Free and Paid eBooks
  - Algebra 1 Lesson 9 6 Practice Answers Public Domain eBooks
  - Algebra 1 Lesson 9 6 Practice Answers eBook Subscription Services

- Algebra 1 Lesson 9 6 Practice Answers Budget-Friendly Options
- 6. Navigating Algebra 1 Lesson 9 6 Practice Answers eBook Formats
  - ePUB, PDF, MOBI, and More
  - Algebra 1 Lesson 9 6 Practice Answers Compatibility with Devices
  - Algebra 1 Lesson 9 6 Practice Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Algebra 1 Lesson 9 6 Practice Answers
  - Highlighting and Note-Taking Algebra 1 Lesson 9 6 Practice Answers
  - Interactive Elements Algebra 1 Lesson 9 6 Practice Answers
- 8. Staying Engaged with Algebra 1 Lesson 9 6 Practice Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Algebra 1 Lesson 9 6 Practice Answers
- 9. Balancing eBooks and Physical Books Algebra 1 Lesson 9 6 Practice Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Algebra 1 Lesson 9 6 Practice Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra 1 Lesson 9 6 Practice Answers
  - Setting Reading Goals Algebra 1 Lesson 9 6 Practice Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra 1 Lesson 9 6 Practice Answers
  - Fact-Checking eBook Content of Algebra 1 Lesson 9 6 Practice Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

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- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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