

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.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

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

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

$$8.15 = e^{kt}$$

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

$$\ln 8.15 = 120k$$

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

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

Answer Key Master Algebra 1

Katrin Zwirglmaier

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Table of Contents Answer Key Master Algebra 1

1. Understanding the eBook Answer Key Master Algebra 1
 - The Rise of Digital Reading Answer Key Master Algebra 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Master Algebra 1
 - 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 Answer Key Master Algebra 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Master Algebra 1
 - Personalized Recommendations
 - Answer Key Master Algebra 1 User Reviews and Ratings
 - Answer Key Master Algebra 1 and Bestseller Lists
5. Accessing Answer Key Master Algebra 1 Free and Paid eBooks
 - Answer Key Master Algebra 1 Public Domain eBooks

- Answer Key Master Algebra 1 eBook Subscription Services
- Answer Key Master Algebra 1 Budget-Friendly Options

6. Navigating Answer Key Master Algebra 1 eBook Formats

- ePub, PDF, MOBI, and More
- Answer Key Master Algebra 1 Compatibility with Devices
- Answer Key Master Algebra 1 Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Answer Key Master Algebra 1
- Highlighting and Note-Taking Answer Key Master Algebra 1
- Interactive Elements Answer Key Master Algebra 1

8. Staying Engaged with Answer Key Master Algebra 1

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Answer Key Master Algebra 1

9. Balancing eBooks and Physical Books Answer Key Master Algebra 1

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Answer Key Master Algebra 1

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Answer Key Master Algebra 1

- Setting Reading Goals Answer Key Master Algebra 1
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Answer Key Master Algebra 1

- Fact-Checking eBook Content of Answer Key Master Algebra 1
- 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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