

Algebra II

Worksheet 10.1-10.4

Name Key

Date _____

Period _____

1. a.) Write an exponential function whose graph passes through the points (0, 3) and (-1, 6).
b.) determine whether the function represents exponential growth or decay. $y = ab^x$, $3 = ab^0$, $a = 3$,
 $6 = 3b^{-1}$, $b^{-1} = 2$, $(b^{-1})^{-1} = 2^{-1}$, $b = \frac{1}{2}$

2. Simplify $x^{3\pi} + x^\pi$

$$x^{3\pi - \pi} = x^{2\pi}$$

3. Solve $2^{3n-1} \geq \left(\frac{1}{8}\right)^n$
 $2^{3n-1} \geq 2^{-3n}$

$$3n-1 \geq -3n$$

$$6n \geq 1$$

$$n \geq \frac{1}{6}$$

5. Write the equation $\left(\frac{1}{7}\right)^3 = \frac{1}{343}$ in logarithmic form.
 $\log_{\frac{1}{7}} \frac{1}{343} = 3$

4. Solve $9^{2x-1} = 27^{x+4}$
 $3^{2(2x-1)} = 3^{3(x+4)}$
 $3^{4x-2} = 3^{3x+12}$
 $4x-2 = 3x+12$

$$x = 14$$

6. Write the equation $\log_4 32 = \frac{5}{2}$ in exponential form.
 $4^{5/2} = 32$

7. Evaluate $\log_4 \frac{1}{32} = x$

$$4^x = \frac{1}{32}$$

$$2x = -5$$

$$x = -\frac{5}{2}$$

8. Solve $\log_{25} \left(\frac{x}{2}\right) = \frac{1}{2}$
 $25^{1/2} = \frac{x}{2}$
 $5 = \frac{x}{2}$
 $x = 10$

9. Solve $\log_6(3y-5) \geq \log_6(2y+3)$
 $3y-5 \geq 2y+3$
 $-2y+5 \geq -2y+5$

$$y \geq 8$$

Use $\log_2 3 \approx 1.5850$ and $\log_2 5 \approx 2.3219$ to approximate the value of each expression.

10. $\log_2 \frac{9}{5} = \log_2 9 - \log_2 5$
 $= \log_2 3^2 - \log_2 5$
 $= 2\log_2 3 - \log_2 5$
 $= 2(1.5850) - 2.3219 = .8481$

11. $\log_2 75 = \log_2 3 \cdot 5^2$
 $= \log_2 3 + 2\log_2 5$
 $= 1.5850 + 2(2.3219)$
 $= 6.2288$

$$75 = 3 \cdot 25 = 3 \cdot 5^2$$

Solve each equation.

12. $\log_6 x + \log_6 9 = \log_6 54$
 $\log_6 x \cdot 9 = \log_6 54$
 $x \cdot 9 = 54$
 $x = 6$

13. $\log_3(a+3) + \log_3(a+2) = \log_3 6$
 $\log_3(a+3)(a+2) = \log_3 6$
 $(a+3)(a+2) = 6$
 $a^2 + 5a + 6 = 6$
 $a^2 + 5a = 0$
 $a(a+5) = 0$
 $a = 0$
 $a = -5$

14. $\log_8(n-3) + \log_8(n+4) = 1$
 $\log_8(n-3)(n+4) = 1$
 $\log_8(n^2+n-12) = 1$
 $8^1 = n^2+n-12$
 $n^2+n-20 = 0$
 $(n+5)(n-4) = 0$
 $n = -5$
 $n = 4$

Use a calculator to evaluate each expression to four decimal places.

15. $\log 101 = 2.0043$

16. $\log 2.2 = .3424$

Solve each equation or inequality. Round to four decimal places

17. $3.5^x = 47.9$
 $\log 3.5^x = \log 47.9$
 $x \log 3.5 = \log 47.9$
 $y = \frac{\log 47.9}{\log 3.5} = 3.0885$

18. $8^{y+4} > 15$
 $\log 8^{y+4} > \log 15$
 $(y+4) \log 8 > \log 15$
 $y+4 > \frac{\log 15}{\log 8}$

$$y+4 > 1.3023$$

$$y > -2.6977$$

19. Express $\log_3 7$ in terms of common logarithms. Then approximate its value to four decimal places.

$$\log_3 7 = \frac{\log 7}{\log 3} = 1.7712$$

Carnegie Learning Answer Key Lesson

Jane N. White, Collins W. Burnett



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Smart Solutions through Artificial Intelligence Dr.S.Sasikala,Dr.R.Bhuvana,2025-09-24 Dr S Sasikala Assistant Professor Department of Computer Science Agurchand Manmull Jain College Chennai Tamil Nadu India Dr R Bhuvana Assistant Professor Department of Computer Science Agurchand Manmull Jain College Chennai Tamil Nadu India AI Based Solutions for Inclusive Quality Education K.M. Soni,Nitasha Hasteer,Aditi Bhardwaj,Rahul Sindhwani,J. Paulo Davim,2025-09-30 AI Based Solutions for Inclusive Quality Education helps readers discover practical AI tools for diverse learning styles and abilities fostering inclusivity in education and maximizing the individual potential of students and educators It provides cutting edge solutions designed to remove barriers due to accessibility and create an equitable classroom Through practical applications and case studies the book explores the power of AI in creating personalized learning pathways and methods of engagement in the classroom while emphasizing that the human touch with empathy and critical thinking remains central to the learning process It addresses concerns about the ethical development and deployment of AI in education Features Discusses a topic that is at the forefront of concerns in the education sector with the disruptive impact of advances in AI Provides explanations for specific AI platforms and tools along with their features and applications in education Includes case studies and discusses inclusivity and the lessons learned from each AI application Explains how to ethically handle bias privacy and transparency in AI based solutions in education Serves as a comprehensive guide for educators policymakers and technology developers interested in the power of AI in educational environments This book serves as a timely reference in the current era of AI tools and education It is written for those who work in the education sector as well as researchers academicians undergraduate and graduate students those involved with undergraduate teaching in critical thinking and problem solving for information systems information technology computer science and engineering and all teaching institutions where AI tools have been or will be introduced *Resources in Education* ,1985-05

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academicians and more *Learning and Memory* Mark A. Gluck, Eduardo Mercado, Catherine E. Myers, 2012-11-05

Contributions to Education George Peabody College for Teachers, 1929 **School Education** , 1914 **One Flag, One Land: Teacher planning guide** Richard Carl Brown, 1988 A textbook chronicling the birth and growth of the United States through the 1980 s **Education Outlook** , 1910 **Journal of Chemical Education** , 1925 Includes Report of New England Association of Chemistry Teachers and Proceedings of the Pacific Southwest Association of Chemistry Teachers
Journal of Education , 1892 Proceedings of the American Institute of Electrical Engineers , 1925 Vols for 1887 1946 include the preprint pages of the institute s Transactions **Journal of the American Institute of Electrical Engineers** American Institute of Electrical Engineers, 1925 Includes preprints of Transactions of the American Institute of Electrical Engineers ISSN 0096 3860 **The United Presbyterian** , 1908 **Transactions of the American Institute of Electrical Engineers** American Institute of Electrical Engineers, 1926 List of members in v 7 15 17 19 20 Journal of Education and School World , 1896 *School & Society* James McKeen Cattell, Will Carson Ryan, Raymond Walters, 1918
Primary Education , 1919 **Higher Education Literature** Jane N. White, Collins W. Burnett, 1981 **Saturday Review of Literature** , 1927

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