

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

$$2^{3n-1} \geq 2^{-3n}$$

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

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

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

logarithmic form.

$$\log_{\frac{1}{7}} \frac{1}{343} = 3$$

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

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

$$2^{2x} = 2^{-5}$$

$$2x = -5$$

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

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.

$$\log_3(a+3) + \log_3(a+2) = \log_3 6$$

$$\log_3(a+3)(a+2) = \log_3 6$$

$$(a+3)(a+2) = 6$$

$$a^2 + 5a + 6 = 6$$

$$a^2 + 5a = 0$$

$$a(a+5) = 0$$

$$a = 0$$

- 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

$$17. 3.5^x = 47.9$$

$$\log 3.5^x = \log 47.9$$

$$x \log 3.5 = \log 47.9$$

$$x = \frac{\log 47.9}{\log 3.5} = 3.0885$$

$$18. 8^{y+4} > 15$$

$$\log 8^{y+4} > \log 15$$

$$(y+4) \log 8 > \log 15$$

$$y+4 > \frac{\log 15}{\log 8}$$

$$y+4 > 1.3023$$

$$y > -2.6977$$

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

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

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**Moore, Jeffrey, Gupta, Sharad, Sharma,
Manjari, Garg, Ajay, Josephine V. L.,
Helen**

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"This was an Easy Assignment" Jennie Nelson,1990 *Computational Science and Computational Intelligence* Hamid R. Arabnia,Leonidas Deligiannidis,Farzan Shenavarmasouleh,Soheyla Amirian,Farid Ghareh Mohammadi,2025-08-09 The CCIS book constitutes selected papers accepted in the Research Track on Education of the 11th International Conference on Computational Science and Computational Intelligence CSCI 2024 which took place in Las Vegas NV USA during December 11 13 2024 The 26 full papers included in this book were carefully reviewed and

selected from a total of 155 submissions They were organized in topical sections on subject specific education and curriculum design education and artificial intelligence teaching and learning strategies and related reserach studies

Bridging Global Divides for Transnational Higher Education in the AI Era Naseer, Fawad,Yu, Cheryl,Dulloo, Rhytheema,Abdul Kader Jilani, Munshi Muhammad,Shaheen, Momina,2024-11-15 Artificial intelligence AI serves as a transformative force in bridging global divides within transnational higher education by reimagining access and engagement across diverse cultural landscapes By harnessing AI s capabilities to analyze and adapt educational content institutions can create inclusive learning environments that resonate with students unique cultural and contextual realities In this way AI not only enhances the quality of education but also cultivates a global academic ecosystem characterized by shared understanding and mutual growth Bridging Global Divides for Transnational Higher Education in the AI Era examines the transformative role of AI in reshaping education across borders It presents insights from leading academicians and practitioners who explore AI s potential to enhance educational methodologies address administrative challenges and promote inclusivity within transnational higher education Covering topics such as augmented reality AR financial stress and task based learning this book is an excellent resource for educators policymakers administrators researchers academicians and more

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