

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 $9^{2x-1} = 27^{x+4}$

$$3^{2(2x-1)} = 3^{3(x+4)}$$

$$3^{4x-2} = 3^{3x+12}$$

$$4x-2 = 3x+12$$

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

form.

$$4^{5/2} = 32$$

$$x = 14$$

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. $\log_2 \frac{9}{5} = \log_2 9 - \log_2 5$

$$= \log_2 3^2 - \log_2 5$$

$$= 2\log_2 3 - \log_2 5$$

$$= 2(1.5850) - 2.3219 = .8481$$

Solve each equation.

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

$$\log_6 x \cdot 9 = \log_6 54$$

$$x \cdot 9 = 54$$

$$x = 6$$

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

15. $\log 101 = 2.0043$

Solve each equation or inequality. Round to four decimal places

17. $3.5^x = 47.9$

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

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

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

19. Express $\log_7 7$ in terms of common logarithms. Then approximate its value to four decimal places.

$$\log_7 7 = \frac{\log 7}{\log 3} = 1.7712$$

11. $\log_2 75 = \log_2 3 \cdot 5^2$

$$= \log_2 3 + 2\log_2 5$$

$$= 1.5850 + 2(2.3219)$$

$$= 6.2288$$

- 14.

$$\log_8(n-3) + \log_8(n+4) = 1$$

$$\log_8(n-3)(n+4) = 1$$

$$\log_8(n^2+n-12) = 1$$

$$8^1 = n^2+n-12, n^2+n-20=0$$

$$(n+5)(n-4) = 0, n = -5, n = 4$$

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

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

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

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

$$y+4 > 1.3023$$

$$y > -2.6977$$

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Marco Cascella



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Middle School Math Solution: Volume 2 Sandy Finocchi, Amy Jones Lewis, Kelly Edenfield, Josh Fisher, 2019

Middle School Math Solution Sandy Bartle Finocchi, 2022 **Middle School Math Solution** Sandy Bartle Finocchi, Amy J. Lewis, Josh Fisher, Janet Sinopoli, Victoria Fisher, 2021 **Enhancing Classroom Instruction and Student Skills With**

AI Kessinger, Michael W., Nelson, Gera S., Lennex, Lesia, Nettleton, Kimberly Fletcher, 2025-05-22 Artificial Intelligence AI transforms the classroom experience by enhancing instruction and helping students build essential skills for the modern world Teachers use AI tools to personalize learning adapt lessons in real time and automate administrative tasks allowing more time to focus on student engagement AI supports students in developing critical thinking problem solving and digital literacy through interactive and adaptive platforms By integrating AI into everyday teaching practices educators create more dynamic inclusive and effective learning environments that meet the diverse needs of learners Enhancing Classroom Instruction and Student Skills With AI explores the integration of intelligent technologies into education practices and skill development It examines the effects of technology on curriculum instruction techniques and student engagement This book covers topics such as critical thinking higher education and student engagement and is a useful resource for educators

engineers psychologists academicians researchers and scientists **AI Based Solutions for Inclusive Quality Education** K.M. Soni, Nitasha Hasteer, Aditi Bhardwaj, Rahul Sindhvani, 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 *Artificial Intelligence based Solutions for Industrial Applications* Pooja Jha, Shalini Mahato, Prasanta K.

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