

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.

$y = ab^x$, $3 = ab^0$, $a = 3$
 $6 = 3b^{-1}$, $b^{-1} = 2$, $(b^{-1})^{-1} = 2^{-1}$, $b = \frac{1}{2}$
 a) $y = 3(\frac{1}{2})^x$ b) decay

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

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

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

$3n-1 \geq -3n$
 $+3n \geq +3n$
 $6n \geq 1$ $n \geq \frac{1}{6}$

5. Write the equation $(\frac{1}{7})^{3+3} = \frac{1}{343}$ 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 $\log_4 \frac{1}{32} = x$ 8. Solve $\log_{25} (\frac{x}{2}) = \frac{1}{2}$

$4^x = \frac{1}{32}$
 $2x = 2^{-5}$
 $x = \frac{-5}{2}$

$25^{1/2} = \frac{x}{2}$
 $5 = \frac{x}{2}$
 $x = 10$

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

$\sqrt[7]{3 \cdot 25}$
 $\sqrt[7]{75}$

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

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. $8^{y+4} > 15$
 $\log 8^{y+4} > \log 15$
 $(y+4)\log 8 > \log 15$
 $y+4 > \frac{\log 15}{\log 8}$
 $y > -2.6977$

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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Marcel A. Müller



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