Algebra II **Name** Key

Worksheet 10.1-10.4 **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 $x^{3n} \div x^n$ $x^{3n-n} = x^{2n}$

3. Solve $2^{3n-1} \geq \left(\frac{1}{8}\right)^n$. $2^{3n-1} \geq 2^{-3n}$, $3n-1 \geq -3n$, $+3n+1 \quad +3n+1$, $6n \geq 1$, $n \geq \frac{1}{6}$

4. Solve $9^{2x-1} = 27^{x+4}$. $3^{2(2x-1)} = 3^{3(x+4)}$, $3^{4x-2} = 3^{3x+12}$, $4x-2 = 3x+12$, $x = 14$

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

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

7. Evaluate $\log_4 \frac{1}{32} = x$. $4^x = \frac{1}{32}$, $2^{2x} = 2^{-5}$, $2x = -5$, $x = \frac{-5}{2}$

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 $\log_6(3y-5) \geq \log_6(2y+3)$. $3y-5 \geq 2y+3$, $-2y+5 \quad -2y+5$, $y \geq 8$

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, 25 → 5, 5

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

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

18. $8^{y+4} > 15$, $\log 8^{y+4} > \log 15$, $(y+4)\log 8 > \log 15$, $y+4 > \frac{\log 15}{\log 8}$, $y+4 > 1.3023$, $-4 \quad -4$, $y > -2.6977$

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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