

Algebra II

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. $y = ab^x$, $3 = ab^0$, $a = 3$,

$$6 = 3b^{-1} \Rightarrow b^{-1} = 2 \Rightarrow b = \frac{1}{2}$$

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

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

$$3x-1 \geq -3x$$

$$6x \geq 1 \Rightarrow x \geq \frac{1}{6}$$

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

$$\log_7 \frac{1}{343} = x$$

7. Evaluate $\log_4 32 = x$

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

$$2x = -5$$

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

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

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

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

Solve each equation.

12.

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

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

$$x \cdot 9 = 54 \Rightarrow x = 6$$

13.

$$\log_2(a+3) + \log_2(a+2) = \log_2 6$$

$$\log_2(a+3)(a+2) = \log_2 6$$

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

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

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

$$a(a+5) = 0 \Rightarrow a = 0 \text{ or } a = -5$$

14.

$$\log_2(n-3) + \log_2(n+4) = 1$$

$$\log_2(n-3)(n+4) = 1$$

$$\log_2(n^2 + n - 12) = 1$$

$$2^1 = n^2 + n - 12 \Rightarrow n^2 + n - 20 = 0$$

$$(n+5)(n-4) = 0 \Rightarrow n = -5 \text{ or } n = 4$$

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

15. $\log 101 = 2.0043$

16. $\log 2.3 = .3424$

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. $8^{x+4} > 15$

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

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

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

$$x+4 > 1.3023$$

$$-4 > -4$$

$$x > -2.6977$$

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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Jane N. White, Collins W. Burnett

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academicians and more *Learning and Memory* Mark A. Gluck, Eduardo Mercado, Catherine E. Myers, 2012-11-05
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Primary Education, 1919 **Higher Education Literature** Jane N. White, Collins W. Burnett, 1981 **Saturday Review of Literature**, 1927

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