

# 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)  $y = 3\left(\frac{1}{2}\right)^x$       b) decay

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  $\left(\frac{1}{7}\right)^{3+3} = \frac{1}{343}$  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  $\log_{25} \left(\frac{x}{2}\right) = \frac{1}{2}$

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

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

$$2x = -5$$

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

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

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

$$x = 10$$

9. Solve  $\log_6(3y-5) \geq \log_6(2y+3)$

$$3y-5 \geq 2y+3$$

$$-2y+5 \geq -2y+3$$

$$y \geq 8$$

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

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

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

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

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

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

$$= 1.5850 + 2(2.3219) = 6.2288$$

$$\begin{array}{r} 75 \\ 3 \overline{) 75} \\ \underline{25} \\ 5 \end{array}$$

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

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

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

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

$$y > -2.6977$$

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

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

# Carnegie Learning Answer Key

**A Gutmann**



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