

# 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  $9^{2x-1} = 27^{x+4}$   
 $3^{2(2x-1)} = 3^{3(x+4)}$   
 $3^{4x-2} = 3^{3x+12}$   
 $4x-2 = 3x+12$

$$x = 14$$

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

7. Evaluate  $\log_4 \frac{1}{32} = x$

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

$$2x = -5$$

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

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

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

$$75 = 3 \cdot 25 = 3 \cdot 5^2$$

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

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

18.  $8^{y+4} > 15$   
 $\log 8^{y+4} > \log 15$   
 $(y+4) \log 8 > \log 15$   
 $y+4 > \frac{\log 15}{\log 8}$

$$y+4 > 1.3023$$

$$y > -2.6977$$

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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