

Algebra III

Name Kay

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

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

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

$3n-1 \geq -3n$

$6n \geq 1$ $n \geq \frac{1}{6}$

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

$\log_{\frac{1}{7}} \frac{1}{343} = 3$

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

$y = \frac{1}{32}$

$x = 2^{-5}$

$2x = -5$

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

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

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

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

$x = 10$

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

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

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

$= 2\log_2 3 - \log_2 5$

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

Solve each equation.

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

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

$x \cdot 9 = 54$

$x = 6$

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

15. $\log 101 \approx 2.0043$

Solve each equation or inequality. Round to four decimal places

17. $3.5^x = 47.9$

$\log 3.5^x = \log 47.9$

$x \log 3.5 = \log 47.9$

$y = \frac{\log 47.9}{\log 3.5} = 3.0865$

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

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

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

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

$x = 14$

4. Solve $9^{2x-1} = 27^{x+4}$

$3^{2(2x-1)} = 3^{3(x+4)}$

$3^{4x-2} = 3^{3x+12}$

$4x-2 = 3x+12$

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

$4^{\frac{5}{2}} = 32$

9. Solve $\log_2(3y-5) \geq \log_2(2y+3)$.

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

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

$y \geq 8$

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

$= \log_2 3 + 2 \log_2 5$

$= 1.5850 + 2(2.3219)$

$= 6.2288$

14. $\log_8(n-3) + \log_8(n+4) = 1$

$\log_8(n-3)(n+4) = 1$

$\log_8(n^2 + n - 12) = 1$

$8^1 = n^2 + n - 12$, $n^2 + n - 20 = 0$

$(n+5)(n-4) = 0$, $n = -5$

$y+4 > 1.3023$

$y+4 > -4$

$y > -2.6977$

18. $8^{x+4} > 15$

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

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

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

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Michael R. Simonson

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A New Agenda for Higher Education William M. Sullivan, Matthew S. Rosin, 2008-04-04 In A New Agenda for Higher Education, the authors endorse higher education's utility for enhancing the practical as well as intellectual dimensions of life by developing a third different conception of educational purpose. Based on The Carnegie Foundation for the Advancement of Teaching seminar that brought together educators from six professional fields with faculty from the liberal arts and sciences. A New Agenda for Higher Education proposes an educational aim of practical reason focusing on the interdependence of liberal education and professional training.

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Communication Applications, Te Randall McCutcheon,2000-04

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