

Study Guide And Intervention Exponential Functions Answers

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Study Guide And Intervention Exponential

7-2 Study Guide and Intervention (continued) Solving Exponential Equations and Inequalities Solve Exponential Inequalities An exponential inequality is an inequality involving exponential functions. Solve $52x - 1 > -1$. 125 $52x - 1 > -1$ 125 Original inequality $52x - 1 \rightarrow 5$ 3 Rewrite -1 as 5 $125 - 3$. $2x - 1 > -3$ Prop. of Inequality for Exponential Functions

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7-1 Study Guide and Intervention Graphing Exponential Functions Exponential Growth An

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exponential growth function has the form $y = ab^x$, where $b > 1$. The graphs of exponential equations can be transformed by changing the value of the constants a , h , and k in the exponential equation: $(xf) = abx - h + k$. Graph $y = 4x + 2$.

3 1 Study Guide And Intervention Exponential Functions Answers

7-5 Study Guide and Intervention (continued) Exponential Functions Identify Exponential Behavior It is sometimes useful to know if a set of data is exponential. One way to tell is to observe the shape of the graph. Another way is to observe the pattern in the set of data. Determine whether the set of data shown below displays exponential behavior.

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7-1 Study Guide and Intervention. Graphing Exponential Functions. Exponential Growth An exponential growth function has the form $y = ab^x$, where $b > 1$. The graphs of exponential equations can be transformed by changing the value of the constants a , h , and k in the exponential equation: $(xf) = abx - h + k$. Graph $y = 4x + 2$.

NAME DATE PERIOD 7-1 Study Guide and Intervention

7-1 Study Guide and Intervention Graphing Exponential Functions Exponential Growth An exponential growth function has the form $y = ab^x$, where $b > 1$. The graphs of exponential equations can be transformed by changing the value of the constants a , h , and k in the exponential equation: $(xf) = abx - h + k$. Graph $y = 4x + 2$.

3 1 Study Guide And Intervention Exponential Functions Answers

7-1 Study Guide and Intervention Graphing Exponential Functions Exponential Growth An exponential growth function has the form $y = ab^x$, where $b > 1$. The graphs of exponential equations can be transformed by changing the value of the constants a , h , and k in the exponential equation:

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$(xf) = abx - h + k$. Graph $y = 4x + 2$. State the domain and range.

9-1 Study Guide And Intervention Exponential Functions Answers

NAME DATE PERIOD 3-1 Study Guide and Intervention Exponential Functions Exponential Functions
An exponential function with base b has the form $y = ab^x$, where x is any real number and a and b are real number constants such that $a \neq 0$, b is positive, and $b \neq 1$. If $b > 1$, then the function is exponential growth.

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6-6 Study Guide and Intervention Rational Exponents $7\sqrt{11}$ $3\sqrt{15}$ $3000\sqrt{3}$ $47 - 1$ $2^3 - 1$ $3^a - 5$ $3^b - 2$ $3^3 - 2$ -1 $4^p - 5$ $4^9 - 6$ 0.02 0.031 0.040 $ALG2_A_CRM_C06_CR_660551.indd$ 38 12/20/10 9:21 PM

NAME DATE PERIOD 6-6 Study Guide and Intervention

Study Guide and Intervention (continued) Geometric Sequences as Exponential Functions Example
a. Write an equation for the n th term of the geometric sequence 5, 20, 80, 320, . . . The first term of the sequence is 320. So, $a_1 = 320$. Now find the common ratio. $\frac{5}{20} = \frac{20}{80} = \frac{80}{320} = \frac{1}{4}$. So, $r = \frac{1}{4}$. $a_n = a_1 r^{n-1}$

NAME DATE PERIOD 7-7 Study Guide and Intervention

7-1 Study Guide and Intervention Multiplication Properties of Exponents Multiply Monomials A monomial is a number, a variable, or the product of a number and one or more variables with nonnegative integer exponents. An expression of the form is called a power and represents the product you obtain when x is used as a factor n times. To multiply ...

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7-3 Study Guide and Intervention (continued) Rational Exponents Solve Exponential Equations In an

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exponential equation, variables occur as exponents. Use the Power Property of Equality and the other properties of exponents to solve exponential equations. Example: Solve $1024^x = 4$.
Original equation $1024^x = 4$ Rewrite 1024 as 4^5 .

Study Guide And Intervention Exponential Functions Answers

Study Guide and Intervention (continued) Rational Exponents Solve Exponential Equations In an exponential equation, variables occur as exponents. Use the Power Property of Equality and the other properties of exponents to solve exponential equations. 3. 6. 9. 12. 15. 18. 21. 11 $4x-3$ - 32 - 16 $145x-3$ - 1331 $4 \log x = 343$ $5 = 6561$ $5 \log r = 7776$ 6

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Study Guide and Intervention (continued) Growth and Decay Exponential Decay Radioactive decay and depreciation are examples of exponential decay. This means that an initial amount decreases at a steady rate over a period of time. The general equation for exponential decay is $y = General equation for exponential decay a(1 - r)^t$.

Answers (Lesson 7-6)

Exponents Answers Intervention Study Guide and Intervention Rational Exponents PERIOD Rational Exponents For any real numbers a and b and any positive integer n , if $a^n = b$, then a is an n th root of b . Rational exponents can be used to represent n th roots. Example $A^{\frac{1}{n}}$ form. Exercises Square

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Root

Study Guide And Intervention Rational Exponents Answers

Write each expression using exponents. a. $10^{10} 10^{10} 10^{10}$ The base is 10. It is a factor 5 times, so the exponent is 5. ... Study Guide and Intervention Powers and Exponents ... Study Guide and Subtract. Intervention

4-2 Study Guide and Intervention

Using Exponential and Logarithmic Functions 1. BACTERIA How many hours will it take a culture of bacteria to increase from 20 to 2000? Use $k = 0.614$. 2. RADIOACTIVE DECAY A radioactive substance has a half-life of 32 years. Find the constant k in the decay formula for the substance. 3.

NAME DATE PERIOD 7-8 Practice

Study Guide and Intervention Powers and Exponents Write 63 as a product of the same factor. The base is 6. The exponent 3 means that 6 is used as a factor 3 times. $6^3 = 6 \cdot 6 \cdot 6$ Evaluate 5^4 . $5^4 = 5 \cdot 5 \cdot 5 \cdot 5 = 625$ Write $4^4 \cdot 4^4 \cdot 4^4$ in exponential form. The base is 4. It is used as a factor 5 times, so the exponent is 5. $4^5 = 4 \cdot 4 \cdot 4 \cdot 4 \cdot 4$

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