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Study Guide and Intervention

Exponential Functions

Exponential Functions An exponential function has the form $y = ab^x$, where $a \neq 0$, $b > 0$, and $b \neq 1$.

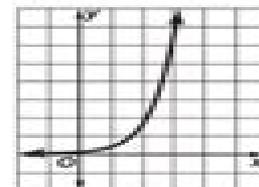
Properties of an Exponential Function	<ol style="list-style-type: none"> The function is continuous and one-to-one. The domain is the set of all real numbers. The x-axis is the asymptote of the graph. The range is the set of all positive numbers if $a > 0$ and all negative numbers if $a < 0$. The graph contains the point $(0, a)$.
Exponential Growth and Decay	<p>If $a > 0$ and $b > 1$, the function $y = ab^x$ represents exponential growth.</p> <p>If $a > 0$ and $0 < b < 1$, the function $y = ab^x$ represents exponential decay.</p>

Example 1 Sketch the graph of $y = 0.1(4)^x$. Then state the function's domain and range.

Make a table of values. Connect the points to form a smooth curve.

x	-1	0	1	2	3
y	0.025	0.1	0.4	1.6	6.4

The domain of the function is all real numbers, while the range is the set of all positive real numbers.



Example 2 Determine whether each function represents exponential growth or decay.

a. $y = 0.5(2)^x$

exponential growth, since the base, 2, is greater than 1

b. $y = -2.8(2)^x$

neither, since -2.8 , the value of a is less than 0.

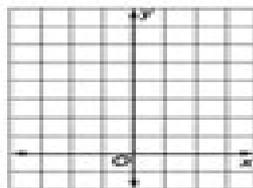
c. $y = 1.1(0.5)^x$

exponential decay, since the base, 0.5, is between 0 and 1

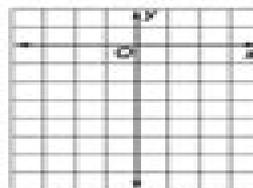
Exercises

Sketch the graph of each function. Then state the function's domain and range.

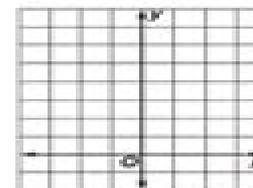
1. $y = 3(2)^x$



2. $y = -2\left(\frac{1}{4}\right)^x$



3. $y = 0.25(5)^x$



Determine whether each function represents exponential growth or decay.

4. $y = 0.3(1.2)^x$

5. $y = -5\left(\frac{4}{5}\right)^x$

6. $y = 3(10)^{-x}$

Study And Intervention Exponential Functions Answers

Sebastian Brünink



Study And Intervention Exponential Functions Answers:

This book delves into Study And Intervention Exponential Functions Answers. Study And Intervention Exponential Functions Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Study And Intervention Exponential Functions Answers, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 5: Conclusion
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