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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 $b \neq 1$.

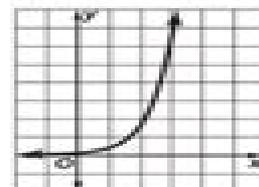
Properties of an Exponential Function	<ol style="list-style-type: none"> The function is continuous and one-to-one. The domain is the set of all real numbers. The x-axis is the asymptote of the graph. The range is the set of all positive numbers if $a > 0$ and all negative numbers if $a < 0$. The graph 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.

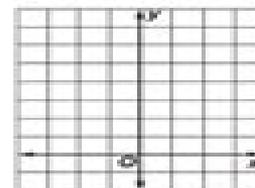
1. $y = 3(2)^x$



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

Padhraic Smyth



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Table of Contents Study And Intervention Exponential Functions Answers

1. Understanding the eBook Study And Intervention Exponential Functions Answers
 - The Rise of Digital Reading Study And Intervention Exponential Functions Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Study And Intervention Exponential Functions Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study And Intervention Exponential Functions Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study And Intervention Exponential Functions Answers
 - Personalized Recommendations
 - Study And Intervention Exponential Functions Answers User Reviews and Ratings
 - Study And Intervention Exponential Functions Answers and Bestseller Lists
5. Accessing Study And Intervention Exponential Functions Answers Free and Paid eBooks
 - Study And Intervention Exponential Functions Answers Public Domain eBooks
 - Study And Intervention Exponential Functions Answers eBook Subscription Services
 - Study And Intervention Exponential Functions Answers Budget-Friendly Options

6. Navigating Study And Intervention Exponential Functions Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Study And Intervention Exponential Functions Answers Compatibility with Devices
 - Study And Intervention Exponential Functions Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study And Intervention Exponential Functions Answers
 - Highlighting and Note-Taking Study And Intervention Exponential Functions Answers
 - Interactive Elements Study And Intervention Exponential Functions Answers
8. Staying Engaged with Study And Intervention Exponential Functions Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Study And Intervention Exponential Functions Answers
9. Balancing eBooks and Physical Books Study And Intervention Exponential Functions Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Study And Intervention Exponential Functions Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Study And Intervention Exponential Functions Answers
 - Setting Reading Goals Study And Intervention Exponential Functions Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Study And Intervention Exponential Functions Answers
 - Fact-Checking eBook Content of Study And Intervention Exponential Functions Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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