

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

Horizontal Translation	Graph shifts left.	$f(x+1)$	$f(x)$
	Graph shifts right.	$f(x-1)$	$f(x)$
Vertical Translation	Graph shifts up.	$f(x)+4$	$f(x)$
	Graph shifts down.	$f(x)-4$	$f(x)$
Reflection	Flips over the x-axis.	$-f(x)$	$f(x)$
	Flips over the y-axis.	$f(-x)$	$f(x)$
Horizontal Stretch or Shrink	Graph stretches away from the y-axis.	$f(x/2)$	$f(x)$
	Graph shrinks towards the y-axis.	$f(2x)$	$f(x)$
Vertical Stretch or Shrink	Graph stretches away from the x-axis.	$af(x)$	$f(x)$
	Graph shrinks towards the x-axis.	$f(x)/a$	$f(x)$

Directions: Identify the transformation(s) of each exponential function.

$g(x) = 2^x + 4$	1. vertical translation
$g(x) = 2^{x-10}$	2. horizontal translation
$g(x) = 4(1/2)^x$	3. vertical stretch by 4
$g(x) = 2(2^x) - 5$	4. - vertical stretch by 2 - vertical translation
$g(x) = -2(2^x) + 3$	5. - reflection of - horizontal stretch by 2
$g(x) = 2^{2x} + 8$	6. - reflection - vertical stretch

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

Steps for Graphing Transformations of Exponential Functions:

- Step 1: Identify the parent function and its base.
- Step 2: Identify the transformation(s) of the given function.
- Step 3: Create a table of values.
- Step 4: Plot the points on the graph and connect them with a smooth curve.

Directions: Graph each exponential function and identify the characteristics.

1. $g(x) = 4^x - 3$ Parent Function: $y = 4^x$

x	-2	-1	0	1	2
y	$1/16$	$1/4$	-2	-1	13

Y-intercept: $(0, -2)$ Asymptote: $y = -3$

Graph of $g(x)$

Transformations:
vertical translation down 3 units
Domain: all real numbers
Range: $y > -3$
 $(-2, \infty)$

2. $g(x) = 2(4)^x$ Parent Function: $y = 4^x$

x	-2	-1	0	1	2
y	1/2	1	2	4	8

Y-intercept: $(0, 2)$ Asymptote: $y = 0$

Graph of $g(x)$

Transformations:
vertical stretch by a factor of 2
Domain: all real numbers
Range: $y > 0$
 $(0, \infty)$

Detailed answer keys are included!



Exponential Transformations Algebra 2

Daniela Niemeyer



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Table of Contents Exponential Transformations Algebra 2

1. Understanding the eBook Exponential Transformations Algebra 2
 - The Rise of Digital Reading Exponential Transformations Algebra 2
 - Advantages of eBooks Over Traditional Books
2. Identifying Exponential Transformations Algebra 2
 - 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 Exponential Transformations Algebra 2
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exponential Transformations Algebra 2
 - Personalized Recommendations
 - Exponential Transformations Algebra 2 User Reviews and Ratings
 - Exponential Transformations Algebra 2 and Bestseller Lists
5. Accessing Exponential Transformations Algebra 2 Free and Paid eBooks
 - Exponential Transformations Algebra 2 Public Domain eBooks
 - Exponential Transformations Algebra 2 eBook Subscription Services
 - Exponential Transformations Algebra 2 Budget-Friendly Options

6. Navigating Exponential Transformations Algebra 2 eBook Formats
 - ePub, PDF, MOBI, and More
 - Exponential Transformations Algebra 2 Compatibility with Devices
 - Exponential Transformations Algebra 2 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Exponential Transformations Algebra 2
 - Highlighting and Note-Taking Exponential Transformations Algebra 2
 - Interactive Elements Exponential Transformations Algebra 2
8. Staying Engaged with Exponential Transformations Algebra 2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Exponential Transformations Algebra 2
9. Balancing eBooks and Physical Books Exponential Transformations Algebra 2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Exponential Transformations Algebra 2
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Exponential Transformations Algebra 2
 - Setting Reading Goals Exponential Transformations Algebra 2
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exponential Transformations Algebra 2
 - Fact-Checking eBook Content of Exponential Transformations Algebra 2
 - 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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