

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

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

Directions: Identify the transformations of each exponential function.

$g(x) = 2^x + 4$	1. vertical translation
$g(x) = \frac{1}{2}^{x-10}$	2. horizontal translation
$g(x) = 4(2)^x$	3. vertical stretch by a factor of 4
$g(x) = 2(2)^x - 5$	4. - vertical stretch by a factor of 2 - vertical translation
$g(x) = 2(2)^{-x} + 3$	5. - reflection of horizontal axis - vertical translation
$g(x) = 2^x + 5$	6. - reflection of vertical axis - vertical translation

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Steps for Graphing Transformations of Exponential Functions:

- Step 1: Identify the parent function and its base.
- Step 2: Identify the transformation 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 transformations.

1. $g(x) = 2^x - 3$ Parent Function: $y = 2^x$

x	-2	-1	0	1	2
y	$\frac{1}{4}$	$\frac{1}{2}$	-2	-1	1

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

Graph:

Transformation: vertical translation down 3 units

Domain: all real numbers Range: $y > -3$ ($1/2, \infty$)

2. $g(x) = 3(2)^x$ Parent Function: $y = 2^x$

x	-2	-1	0	1	2
y	$\frac{3}{4}$	$\frac{3}{2}$	3	6	12

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

Graph:

Transformation: vertical stretch by a factor of 3

Domain: all real numbers Range: $y > 0$ ($0, \infty$)

Detailed answer keys are included!



Exponential Transformations Answer Key Algebra

K Morrison



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Table of Contents Exponential Transformations Answer Key Algebra

1. Understanding the eBook Exponential Transformations Answer Key Algebra
 - The Rise of Digital Reading Exponential Transformations Answer Key Algebra
 - Advantages of eBooks Over Traditional Books
2. Identifying Exponential Transformations Answer Key Algebra
 - 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 Answer Key Algebra
 - User-Friendly Interface
4. Exploring eBook Recommendations from Exponential Transformations Answer Key Algebra
 - Personalized Recommendations

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

- 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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