

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

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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
$g(x) = -2(2^x) + 11$	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 or Describe?

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 or Describe?

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

R.W. Carroll



Exponential Transformations Algebra 2:

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Computer Algebra and Symbolic Computation Joel S. Cohen, 2002-07-19 This book provides a systematic approach for the algorithmic formulation and implementation of mathematical operations in computer algebra programming languages The viewpoint is that mathematical expressions represented by expression trees are the data objects of computer algebra programs and by using a few primitive operations that analyze and

Algebraic Transformation Groups and Algebraic Varieties Vladimir Leonidovich Popov, 2013-06-29 The book covers topics in the theory of algebraic transformation groups and algebraic varieties which are very much at the frontier of mathematical research

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Calculus Revisited R.W. Carroll, 2013-03-09 In this book the details of many calculations are provided for access to work in quantum groups algebraic differential calculus noncommutative geometry fuzzy physics discrete geometry gauge theory quantum integrable systems braiding finite topological spaces some aspects of geometry and quantum mechanics and gravity

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