

# TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

### TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

Horizontal Translation	Graph shifts left	$f(x+1)$	Left
Horizontal Translation	Graph shifts right	$f(x-1)$	Right
Vertical Translation	Graph shifts up	$f(x)+1$	Up
Vertical Translation	Graph shifts down	$f(x)-1$	Down
Reflection	Flips over the x-axis	$f(-x)$	Y-axis
Reflection	Flips over the y-axis	$f(x)$	X-axis
Horizontal Stretch or Shrink	Graph stretches away from the y-axis	$f(x/2)$	Wider
Horizontal Stretch or Shrink	Graph shrinks towards the y-axis	$f(2x)$	Narrower
Vertical Stretch or Shrink	Graph stretches away from the x-axis	$2f(x)$	Taller
Vertical Stretch or Shrink	Graph shrinks towards the x-axis	$0.5f(x)$	Shorter

Directions: Identify the transformations of each exponential function.

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

### 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 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	0

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

Graph:

Transformations:  
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:

Transformations:  
vertical stretch by a factor of 3  
Domain: all real numbers  
Range:  $y > 0$  ( $0, \infty$ )

Detailed answer keys are included!



# Exponential Transformations Tesccc Algebra Two Answer Key

**D Kirk**



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