

# TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

## TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

Horizontal Translation	Graph shifts left	$f(x) + 5$	$f(x) - 200 = 25$
Graph shifts right	$f(x) + 5$	$f(x) + 5$	$f(x) + 5$
Graph shifts left	$f(x) - 4$	$f(x) + 5$	$f(x) + 5$
Graph shifts down	$f(x) - 4$	$f(x) + 5$	$f(x) + 5$
Flip over the x-axis	$f(x) - 4$	$f(x) + 5$	$f(x) + 5$
Flip over the y-axis	$f(x) - 4$	$f(x) + 5$	$f(x) + 5$
Graph stretches away from the y-axis	$f(x) - 4$	$f(x) + 5$	$f(x) + 5$
Graph stretches towards the y-axis	$f(x) - 4$	$f(x) + 5$	$f(x) + 5$
Graph stretches away from the x-axis	$f(x) - 4$	$f(x) + 5$	$f(x) + 5$
Graph stretches towards the x-axis	$f(x) - 4$	$f(x) + 5$	$f(x) + 5$

Directions: Identify the transformation of each exponential function.

$g(x) = 4^x + 5$	1.
$g(x) = \frac{1}{2}^{x-5}$	2.
$g(x) = 8\sqrt[3]{x}$	3.
$g(x) = 100\% - 1$	4.
$g(x) = 10^x + 2$	5.
$g(x) = 2^x + 5$	6.

## TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

Steps for Graphing Transformations of Exponential Functions:

- Step 1: Identify the parent function and its form.
- Step 2: Identify the transformations 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.  $g(x) = 4^{x-2} - 3$  Parent Function:  $y = 4^x$

x	-2	-1	0	1	2
y	$2\frac{1}{4}$	$1\frac{1}{2}$	-2	1	13

1. Intercept (0, -2) Asymptote:  $y = -3$   
Growth or Decay? Growth  
 Transformation: vertical translation down 3 units  
 Domain: all real numbers Range:  $y > -3$  (0, 5, 13)

2.  $g(x) = 8\sqrt[3]{x}$  Parent Function:  $y = \frac{1}{8}x^3$

x	-8	-1	0	1	8
y	12	6	3	$\frac{3}{2}$	$\frac{3}{4}$

1. Intercept (0, 3) Asymptote:  $y = 0$   
Growth or Decay? Decay  
 Transformation: vertical stretch by a factor of 8  
 Domain: all real numbers Range:  $y > 0$  (0, 6, 8)

Teach your Algebra 2 students about transformations of exponential functions



# Exponential Transformations Tesccc Algebra Two Key

**Mary Jane Sterling**



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