

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
$g(x) = -2(2^x + 1)$	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. $g(x) = 3(4)^x$ Parent Function: $y = 4^x$

x	-2	-1	0	1	2
y	$3/16$	$3/4$	3	12	48

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

Graph of $g(x)$

Transformations:
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

Karin Nielsen-Saines



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