

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

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

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 - vertical translation
$g(x) = -2(2^x + 1)$	5. - reflection - horizontal translation
$g(x) = 2^{x^2} + 5$	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: $y = 4^x$

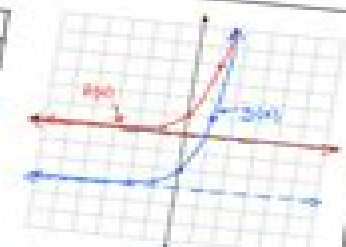
x	-2	-1	0	1	2
y	$\frac{1}{16}$	$\frac{1}{4}$	-2	1	13

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: $y = \frac{1}{2}^x$

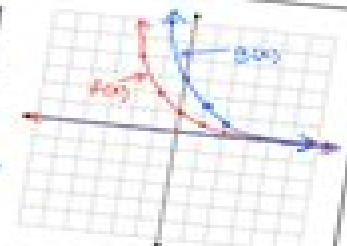
x	-2	-1	0	1	2
y	12	6	3	$\frac{3}{2}$	$\frac{3}{4}$

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 Tesccc Algebra Two

Answer Key

Michael Hoelscher



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