

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

Horizontal Translation	Graph shifts left	$f(x+1)$	$f(x-20)$
Vertical Translation	Graph shifts right	$f(x-1)$	$f(x+20)$
Vertical Translation	Graph shifts up	$f(x)+1$	$f(x)+20$
Vertical Translation	Graph shifts down	$f(x)-1$	$f(x)-20$
Reflection	Flip over the y-axis	$f(-x)$	$f(x)$
Reflection	Flip over the x-axis	$f(x)$	$f(-x)$
Horizontal Stretch or Shrink	Graph stretches away from the y-axis	$f(x/2)$	$f(x/20)$
Horizontal Stretch or Shrink	Graph stretches toward the y-axis	$f(2x)$	$f(20x)$
Vertical Stretch or Shrink	Graph stretches away from the x-axis	$2f(x)$	$20f(x)$
Vertical Stretch or Shrink	Graph stretches toward the x-axis	$f(x)/2$	$f(x)/20$

Directions: Identify the transformations of each exponential function.

$f(x) = 2^{x+1}$	h
$f(x) = 2^{x-1}$	h
$f(x) = 2^{x+1}$	h
$f(x) = 2^{x+1} - 1$	h
$f(x) = 2^{x+1} + 2$	h
$f(x) = 2^{x+1} + 1$	h

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.

$f(x) = 2^{x+2} - 3$ Parent Function: $y = 2^x$

x	-4	-3	-2	-1	0
y	$2^{-4} - 3 = -2\frac{1}{4}$	$2^{-3} - 3 = -2\frac{1}{2}$	$2^{-2} - 3 = -2\frac{1}{2}$	$2^{-1} - 3 = -2\frac{1}{2}$	$2^0 - 3 = -2\frac{1}{2}$

Intercept: $(0, -2)$ Asymptote: $y = -3$
 Growth of Decay
 Transformation: vertical translation down 3 units
 Domain: all real numbers Range: $y > -3$ $(-3, \infty)$

$f(x) = 3 \cdot 2^{x+1}$ Parent Function: $y = 2^x$

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

Intercept: $(0, 3)$ Asymptote: $y = 0$
 Growth of Growth
 Transformation: vertical stretch by a factor of 3
 Domain: all real numbers Range: $y > 0$ $(0, \infty)$

Teach your Algebra 2 students about transformations of exponential functions



Exponential Transformations Algebra 2

RJ Shavelson



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