

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

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

Directions: Identify the transformation of each exponential function.

$g(x) = 4^x + 4$	1.
$g(x) = \frac{1}{2}^{x-5}$	2.
$g(x) = 8\left(\frac{1}{2}\right)^x$	3.
$g(x) = 100\% - 1$	4.
$g(x) = -25 + 2$	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	$\frac{1}{16}$	$\frac{1}{4}$	-2	1	13

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

2. $g(x) = 8\left(\frac{1}{2}\right)^x$ Parent Function: $y = \left(\frac{1}{2}\right)^x$

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

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

Teach your Algebra 2 students about transformations of exponential functions



Exponential Transformations Tesccc Algebra Two Key

Alex Joujan



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