

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

| Horizontal Translation | Graph shifts left | $f(x) + 10$ | $f(x) - 200 = 10$ |
|------------------------------|--|-------------------|-------------------|
| | Graph shifts right <th>$f(x) - 10$</th> <th>$f(x) + 200 = 10$</th> | $f(x) - 10$ | $f(x) + 200 = 10$ |
| Vertical Translation | Graph shifts up | $f(x) + 4$ | $f(x) + 2^x + 3$ |
| | Graph shifts down | $f(x) - 4$ | $f(x) + 2^x - 3$ |
| Reflection | Flip over the y-axis | $f(-x)$ | $f(x) + 2^x$ |
| | Flip over the x-axis | $-f(x)$ | $f(x) + 2^x$ |
| Horizontal Stretch or Shrink | Graph stretches away from the y-axis | $f(x)$ | $f(x) + 2^x$ |
| | Graph stretches toward the y-axis | $f(2x)$ | $f(x) + 2^x$ |
| Vertical Stretch or Shrink | Graph stretches away from the x-axis | $4f(x)$ | $f(x) + 2^x$ |
| | Graph shrinks toward the x-axis | $\frac{1}{4}f(x)$ | $f(x) + 2^x$ |

Directions: Identify the transformation(s) of each exponential function.

| | |
|------------------------------|---|
| $f(x) = 2^x + 4$ | h |
| $f(x) = \frac{1}{2}2^x - 10$ | h |
| $f(x) = 4 \cdot 2^x$ | h |
| $f(x) = 10(2)^x - 1$ | h |
| $f(x) = -2(2)^x + 2$ | h |
| $f(x) = 2^x + 5$ | h |

TRANSFORMATIONS OF EXPONENTIAL FUNCTIONS

Directions: Graph each exponential function and identify the transformation(s).

$f(x) = 2 \cdot 2^x + 3$ Parent Function

| x | -2 | -1 | 0 | 1 | 2 |
|------|----|----|---|---|---|
| f(x) | | | | | |

Vertical Asymptote: _____

Graph of $f(x) = 2 \cdot 2^x + 3$

Transformation(s): _____

Domain: _____

Range: _____

$f(x) = 2(2)^x + 2(2)^x + 3$ Parent Function

| x | -2 | -1 | 0 | 1 | 2 |
|------|----|----|---|---|---|
| f(x) | | | | | |

Vertical Asymptote: _____

Graph of $f(x) = 2(2)^x + 2(2)^x + 3$

Transformation(s): _____

Domain: _____

Range: _____

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Exponential Transformations Answer Key Algebra 2

Léo Pomar



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