

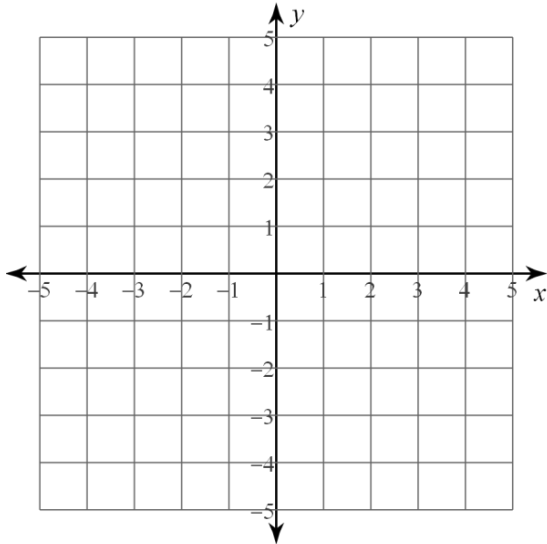
Exponential function

Parent Function equation: _____

Table of values for parent function:

x	-2	-1	0	1	2
y					

Graph of Parent function:

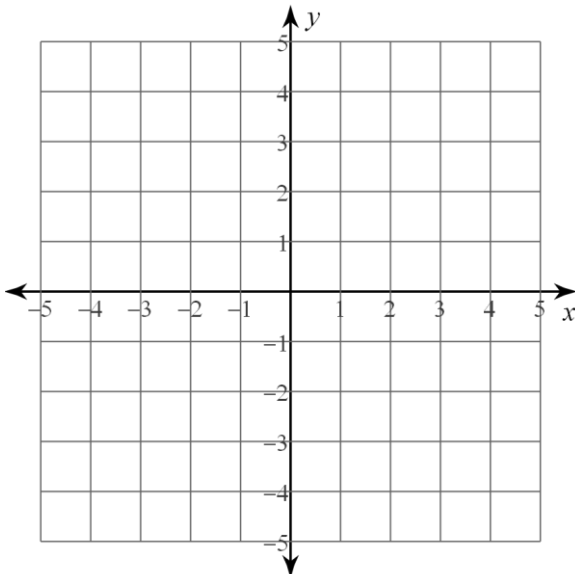


General Transformation equation:

Transformed equation: $y = -2(2)^x - 4$

Verbal Description of transformation:

Graph of the transformed equation:



Analysis of the Parent Function:

Domain:

Range:

Where Increasing:

Where Decreasing:

Where Positive:

Where Negative:

Absolute Min/Max Location:

y-intercept:

x-intercept:

Average Rate of change from $x = 0$ to $x = 1$

Average Rate of change from $x = 0$ to $x = 2$

Horizontal Asymptote:

Growth factor:

Analysis of the Transformed Equation:

Domain:

Range:

Where Increasing:

Where Decreasing:

Where Positive:

Where Negative:

Absolute Min/Max Location:

y-intercept:

x-intercept:

Average Rate of change from $x = 0$ to $x = 1$

Average Rate of change from $x = 0$ to $x = 2$

Horizontal Asymptote:

Growth factor: