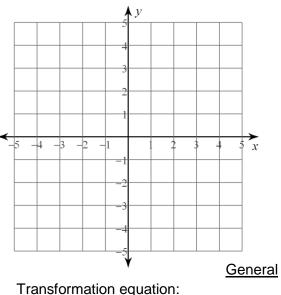
Logarithmic function

Parent Function equation:

Table of values for parent function:

Х	-2	-1	0	1	2
У					

Graph of Parent function:

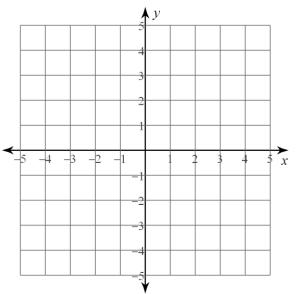


Transformed equation

 $y = 2\log_3(x-1) + 4$

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

Vertical Asymptote:

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

Vertical Asymptote: