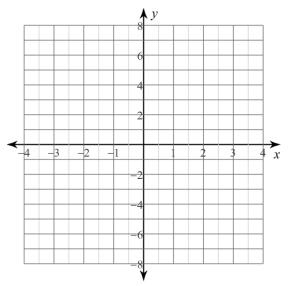
## Parent Function Name: Square Root function

Parent Function equation:

Table of values for parent function:

I	Х	-1	0	1	4	9
	у					

## Graph of Parent function:

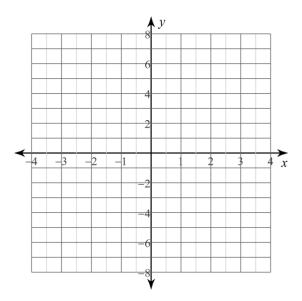


General Transformation equation:

<u>Transformed equation</u>:  $y = -\sqrt{x+1} + 2$ 

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:

End Point:

y-intercept:

x-intercept:

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

Average Rate of change from x = 0 to x = 4

Analysis of the Transformed Equation:

Domain:

Range:

Where Increasing:

Where Decreasing:

Where Positive:

Where Negative:

Absolute Min/Max Location:

End Point:

y-intercept:

x-intercept:

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

Average Rate of change from x = -1 to x = 3