

Graphing Radical (Square Root) Functions

Name _____

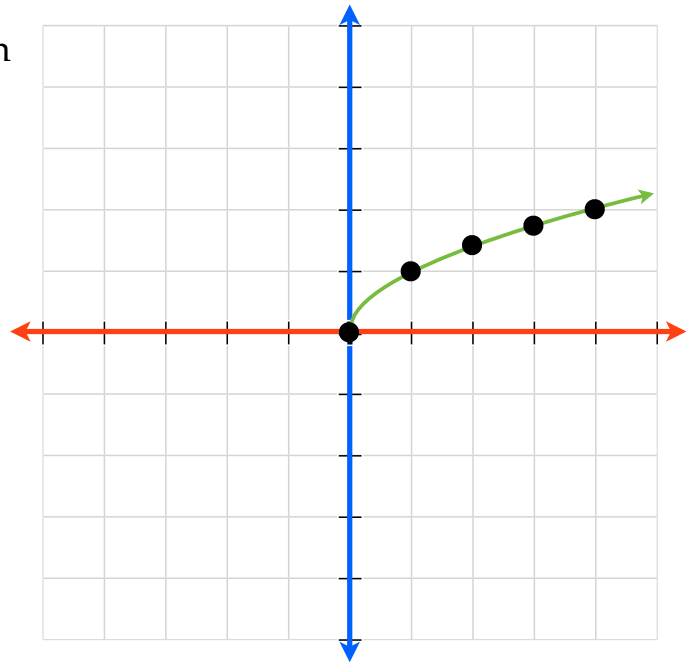
Date _____ Period _____

The Radical (Square Root) Parent Function

$$y = \sqrt{x}$$

Domain: $\{x \mid x \geq 0\}$

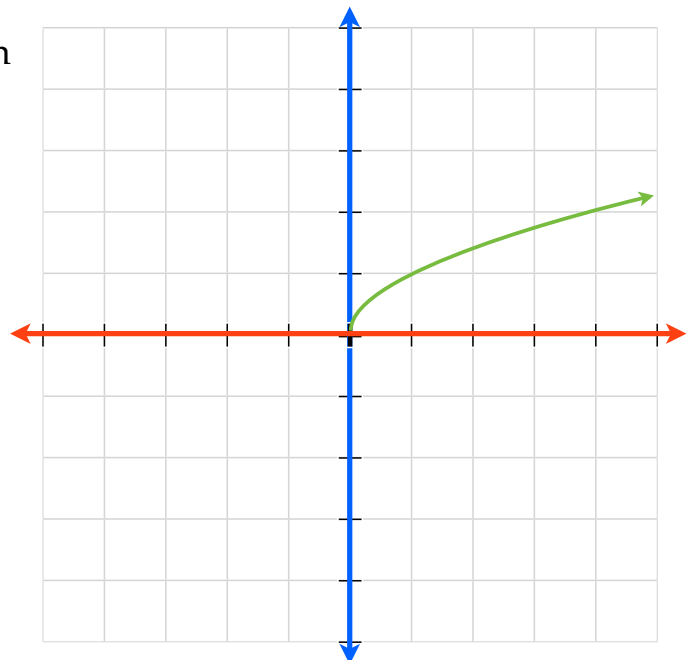
x	y
0	0
1	1
2	≈ 1.4
3	≈ 1.7
4	2



The Radical (Square Root) Parent Function

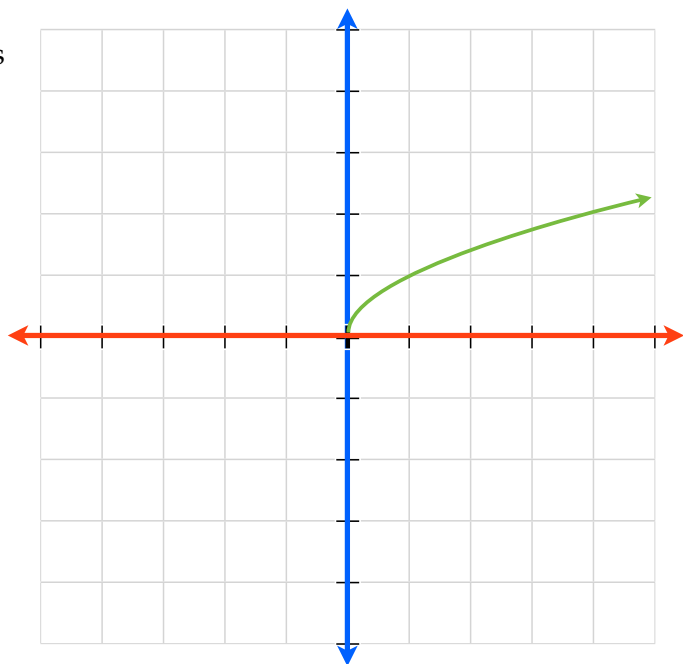
$$y = \sqrt{x}$$

$$y = a\sqrt{x-h} + k$$

 $a =$ $h =$ $k =$ Stretch
ReflectionsHorizontal
TranslationVertical
Translation

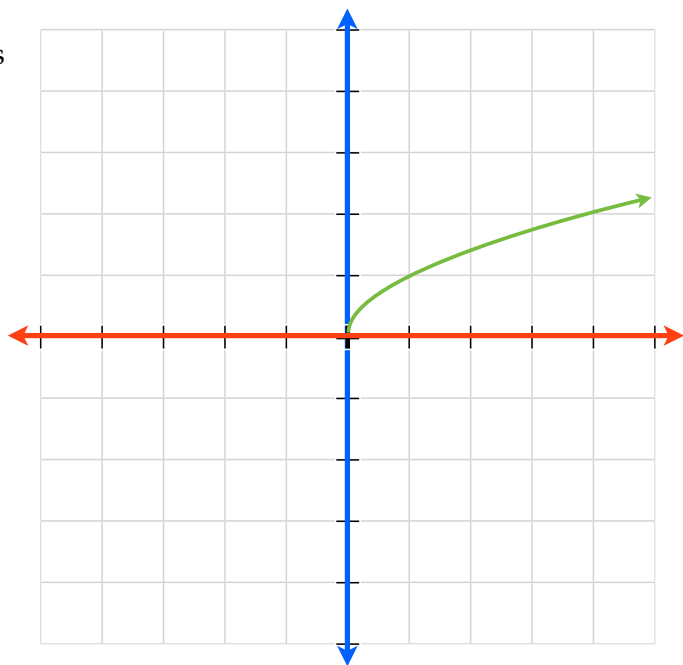
Graph the following Radical (Square Root) Functions

$$y = 2\sqrt{x + 3} + 1$$



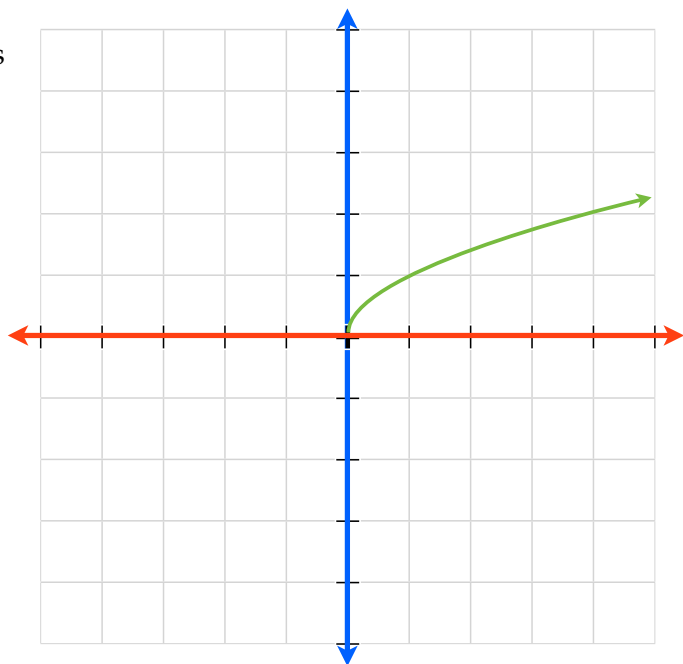
Graph the following Radical (Square Root) Functions

$$y = -\sqrt{x - 2} - 3$$



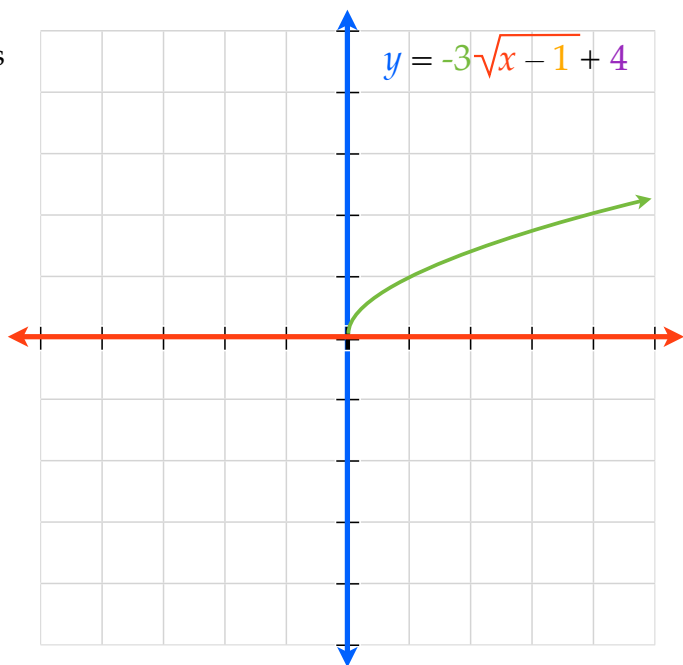
Graph the following Radical (Square Root) Functions

$$y = \frac{1}{2}\sqrt{x+2} - 4$$



Graph the following Radical (Square Root) Functions

$$y = -3\sqrt{x-1} + 4$$



The Radical (Square Root) Parent Function

$$y = \sqrt{x}$$

$$y = a\sqrt{x-h} + k$$

$a =$

$h =$

$k =$

Stretch
Reflections

Horizontal
Translation

Vertical
Translation

