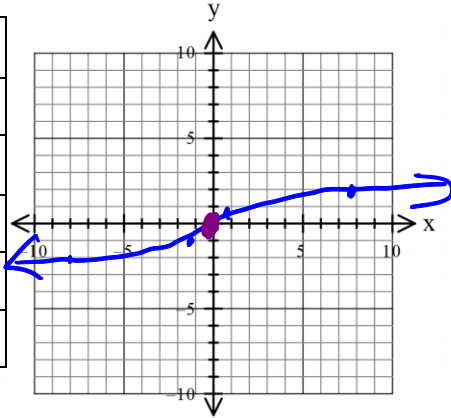


## Parent Functions #6

Name of Graph: cube root

Equation:  $y = \sqrt[3]{x}$   $f(x) = \sqrt[3]{x}$

$x$	$f(x)$
-8	-2
-1	-1
0	0
1	1
8	2



### Key Features

Domain:  $(-\infty, \infty)$

Range:  $(-\infty, \infty)$

x-intercept(s):  $(0, 0)$

y-intercept:  $(0, 0)$

Increasing:  $(-\infty, \infty)$

Decreasing: *N/A*

Constant: *N/A*

Positive:  $(0, \infty)$

Negative:  $(-\infty, 0)$

Maximums / Minimums *N/A*

Symmetry: *odd*

End Behavior:

$$\lim_{x \rightarrow -\infty} f(x) = -\infty$$

$$\lim_{x \rightarrow \infty} f(x) = \infty$$

Transformation general equation:

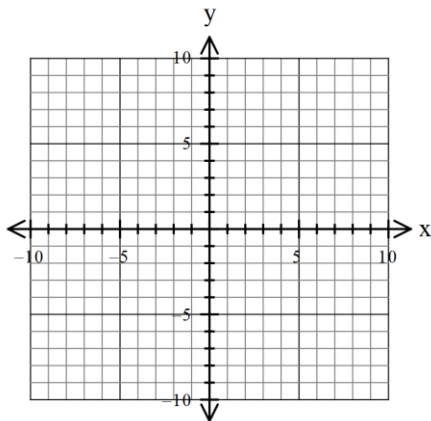
Inverse function:

## Parent Functions #6

Name of Graph: \_\_\_\_\_

Equation: \_\_\_\_\_

$x$	$f(x)$



### Key Features

Domain:

Range:

x-intercept(s):

y-intercept:

Increasing:

Decreasing:

Constant:

Positive:

Negative:

Maximums / Minimums

Symmetry:

End Behavior:

$$\lim_{x \rightarrow -\infty} f(x) =$$

$$\lim_{x \rightarrow \infty} f(x) =$$

Transformation general equation:

Inverse Function:

Steps for solving a cube root equation:

Steps for solving a cube root equation: