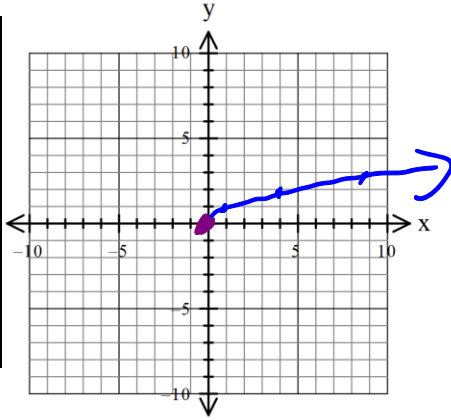


Parent Functions #4

Name of Graph: Square root

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

| x | $f(x)$ |
|-----|--------|
| 0 | 0 |
| 1 | 1 |
| 4 | 2 |
| 9 | 3 |
| 16 | 4 |



Key Features

Domain: $[0, \infty)$
 Range: $[0, \infty)$
 x-intercept(s): $(0, 0)$
 y-intercept: $(0, 0)$
 Increasing: $(0, \infty)$
 Decreasing: N/A
 Constant: N/A
 Endpoint: $(0, 0)$

Positive: $(0, \infty)$
 Negative: N/A
 Maximums / Minimums: $(0, 0)$
 Symmetry: N/A
 End Behavior:

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

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

Steps to find domain algebraically:

Inverse function:

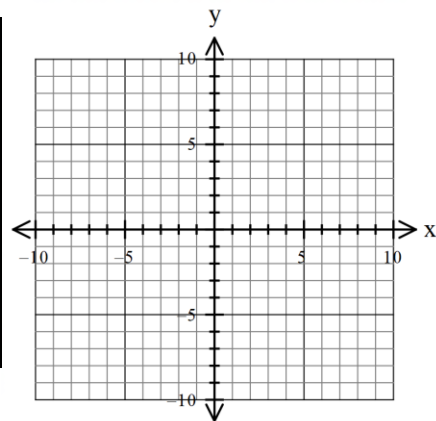
Transformation general equation:

Parent Functions #4

Name of Graph: _____

Equation: _____

| x | $f(x)$ |
|-----|--------|
| | |
| | |
| | |
| | |
| | |



Key Features

Domain:
 Range:
 x-intercept(s):
 y-intercept:
 Increasing:
 Decreasing:
 Constant:
 Endpoint:

Positive:
 Negative:
 Maximums / Minimums
 Symmetry:
 End Behavior:

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

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

Steps to find domain algebraically:

Inverse Function:

Transformation general equation:

Steps for solving a square root equation:

Steps for solving a square root equation: