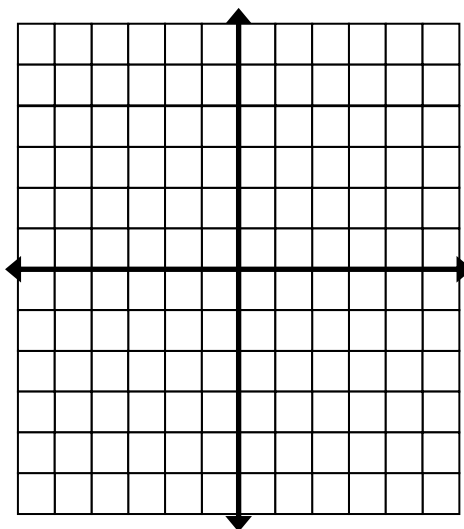


Graphing Square Root Functions Bell Work

1. Fill table and plot the points on the graph for $y = \sqrt{x}$.

x	y



2. Is the graph of $y = \sqrt{x}$ linear or nonlinear?

- a. Linear
- b. Nonlinear

3. Write T for true or F for false.

- a. For $y = \sqrt{x}$ $x \geq 0$ $y > 0$
- b. For $y = \sqrt{x}$ $x \geq 0$ $y \geq 0$
- c. For $y = \sqrt{x}$ $x > 0$ $y \geq 0$

4. Complete the following statement.

- a. The square root function is the inverse of _____ function with a domain limited to 0 and positive real numbers.

Name: _____ Period: _____ Date: _____

Graphing Square Root Functions Bell Work

5. Underline the domain and range of $y = \sqrt{x - 6}$

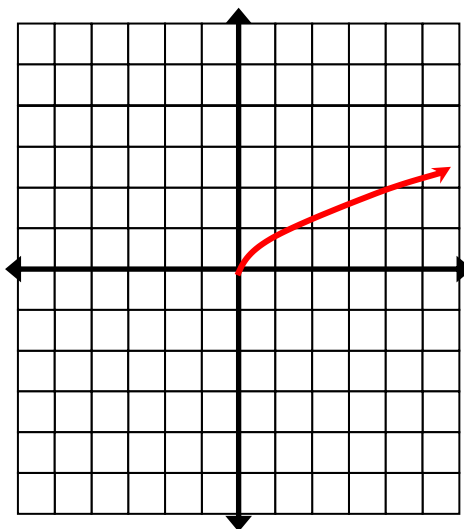
- a. D: $[0, \infty]$ R : $[0, \infty]$
- b. D: $[0, \infty]$ R : $[6, \infty]$
- c. D: $[6, \infty]$ R : $[0, \infty]$

Graphing Square Root Functions Bell Work

ANSWERS

1. Fill table and plot the points on the graph for $y = \sqrt{x}$.

x	y
0	0
1	1
2	1.41
4	2



2. Is the graph of $y = \sqrt{x}$ linear or nonlinear?

a. Linear

b. **Nonlinear**

3. Write T for true or F for false.

d. For $y = \sqrt{x}$ $x \geq 0$ $y > 0$

e. **For $y = \sqrt{x}$ $x \geq 0$ $y \geq 0$**

f. For $y = \sqrt{x}$ $x > 0$ $y \geq 0$

4. Complete the following statement.

a. The square root function is the inverse of **a quadratic** function with a domain limited to 0 and positive real numbers

Graphing Square Root Functions Bell Work

5. Underline the domain and range of $y = \sqrt{x - 6}$

a. D: $[0, \infty]$ R : $[0, \infty]$

b. D: $[0, \infty]$ R : $[6, \infty]$

c. D: $[6, \infty]$ R : $[0, \infty]$