

Graphing Square Root Functions Assignment

Identify the domain and range of each function.

1. $y = \sqrt{x - 6}$

Domain

Range

2. $y = \sqrt{x} + 2$

Domain

Range

3. $y = \sqrt{x} + 10$

Domain

Range

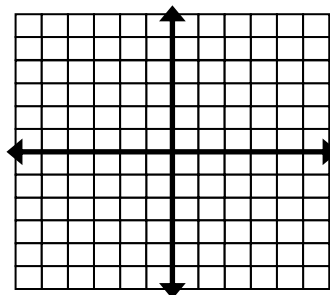
4. $y = \sqrt{x - 2} + 4$

Domain

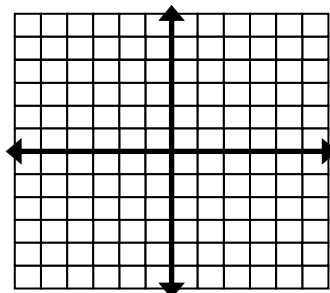
Range

Graph square root function

5. $y = \sqrt{x + 3}$

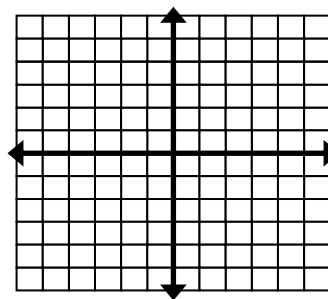


6. $y = \sqrt{x - 1} - 5$

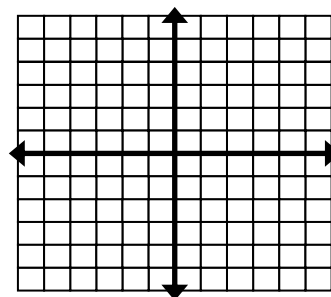


Graphing Square Root Functions Assignment

7. $y = \sqrt{x} - 4$



8. $y = \sqrt{x + 5}$



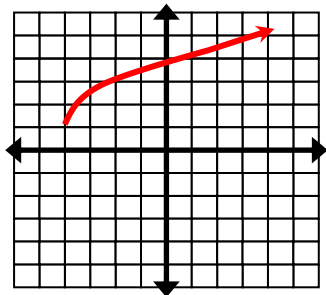
Use the description to write the square root function $g(x)$.

9. The parent function $f(x) = \sqrt{x}$ is reflected across the x-axis, and translated up 3 units.
10. The parent function $f(x) = \sqrt{x}$ is translated down 8 units and right 4 units.
11. The parent function $f(x) = \sqrt{x}$ is reflected across the x-axis, and translated down 3 units and left 4 units.
12. The parent function $f(x) = \sqrt{x}$ is reflected across the x-axis, and translated up 10 units.

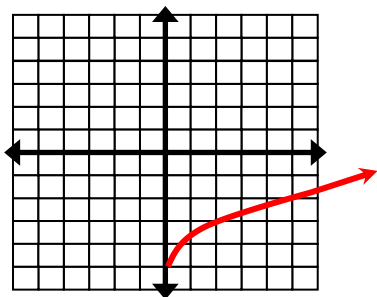
Graphing Square Root Functions Assignment

Use the graph shown as a guide, write the equation and describe the transformation.

13.



14.



Graph function and identify its domain and range.

15. $y = 2\sqrt{x+1}$

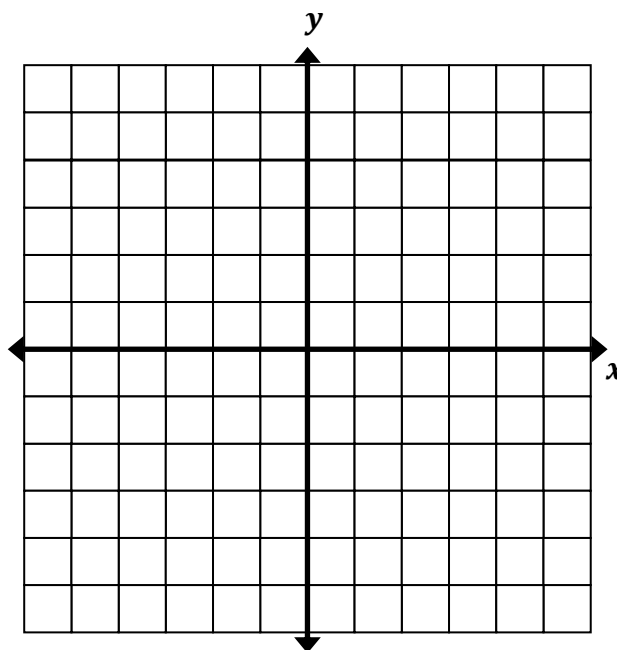
- 1.
2. Table

x	y

3. Graph

4. Domain

Range



Graphing Square Root Functions Assignment

16. $y = \sqrt{x + 2} - 2$

- 1.
2. Table

x	y

3. Graph

4. Domain

Range

