

Section 12.1 Worksheet

Name: _____

Evaluate the square root function for the given value of x . Round your answer to the nearest tenth.

1.) $y = 4\sqrt{x}$ when $x = 25$

2.) $y = 2\sqrt{x+7}$ when $x = 2$

3.) $y = \sqrt{3x+2}$ when $x = 7$

4.) $y = \sqrt{25-2x}$ when $x = 3$

5.) $y = \sqrt{2x+20}$ when $x = 9$

6.) $y = \sqrt{3x-7}$ when $x = 21$

Find the domain of the function.

7.) $y = 7\sqrt{x}$

8.) $y = \sqrt{x-4}$

9.) $y = \sqrt{x+8}$

10.) $y = 3 - \sqrt{x+2}$

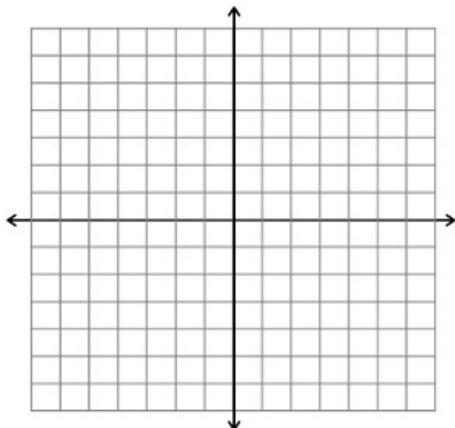
11.) $y = \frac{3}{4}\sqrt{2x+1}$

12.) $y = \sqrt{3x+9}$

Sketch the graph. Find the domain and range.

13.) $y = \sqrt{x} + 4$

x	y

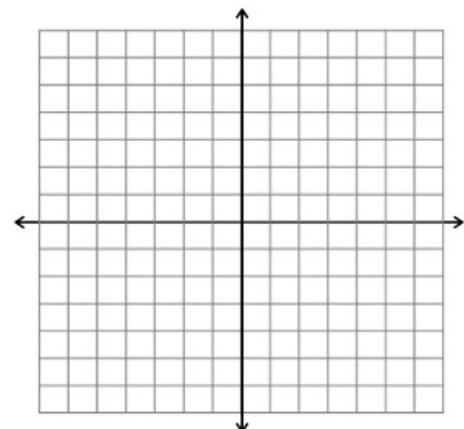


Domain: _____

Range: _____

14.) $y = \sqrt{x + 5}$

x	y

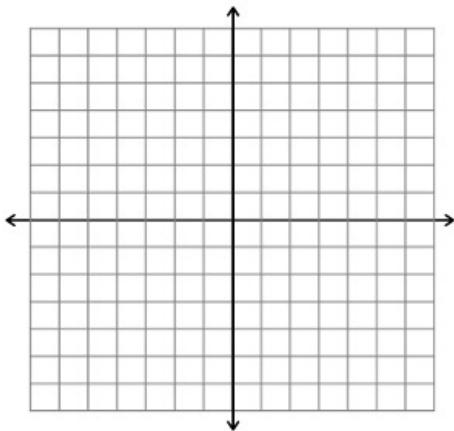


Domain: _____

Range: _____

15.) $y = 2\sqrt{x} - 3$

x	y

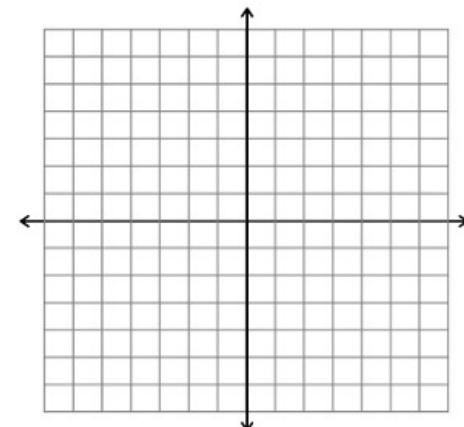


Domain: _____

Range: _____

15.) $y = 2\sqrt{x}$

x	y



Domain: _____

Range: _____