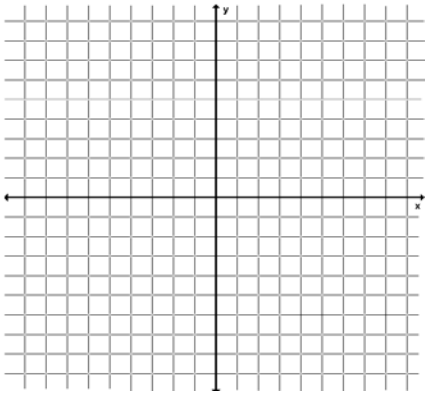


Lesson 6.5 Worksheet

Name: _____

Graph the function. Then state the domain and range. Lastly, compare the function with its parent function.

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

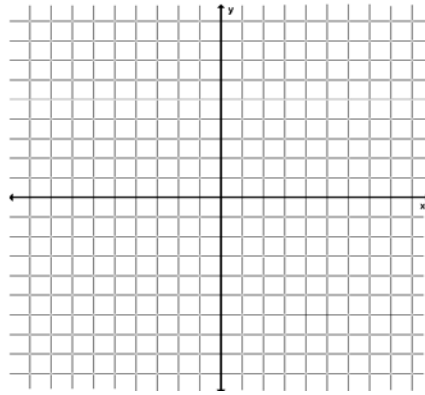


domain: _____

range: _____

comparison:

2.) $y = \frac{1}{4}\sqrt[3]{x}$

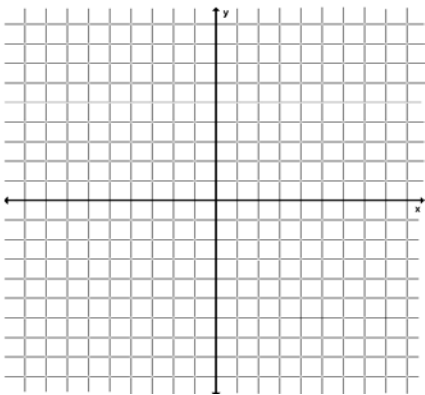


domain: _____

range: _____

comparison:

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

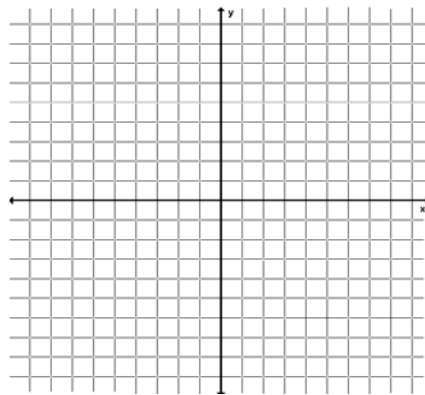


domain: _____

range: _____

comparison:

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

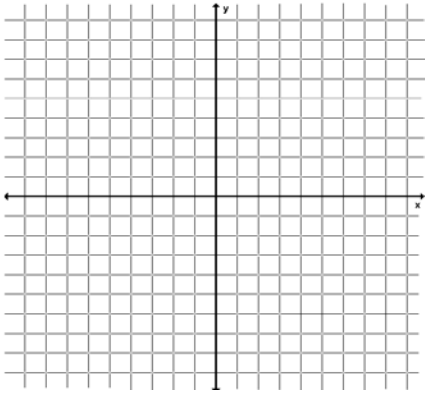


domain: _____

range: _____

comparison:

5.) $y = 2\sqrt{x-1} + 3$

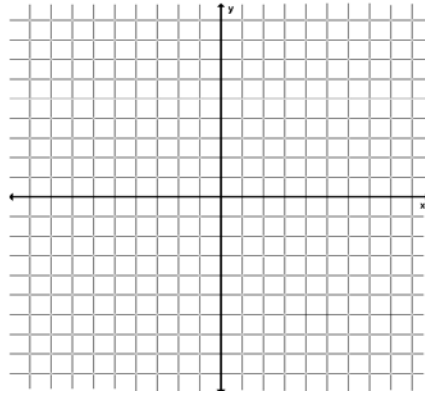


domain: _____

range: _____

comparison:

6.) $f(x) = -3\sqrt[3]{x+7} - 6$

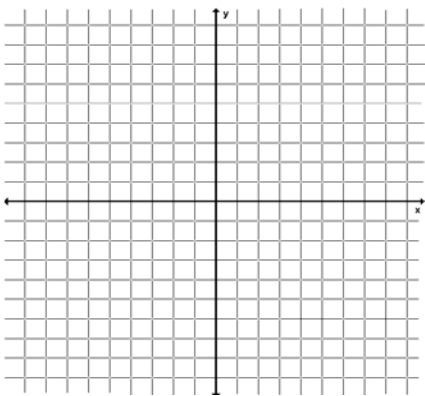


domain: _____

range: _____

comparison:

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

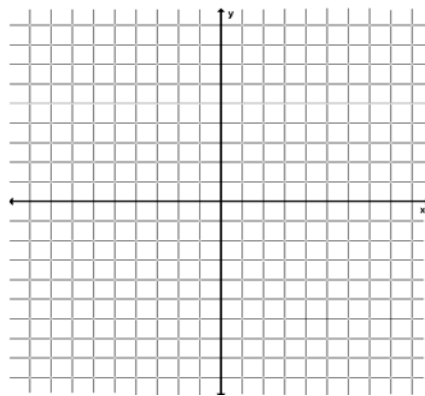


domain: _____

range: _____

comparison:

8.) $y = -\frac{1}{3}\sqrt[3]{x} - 4$

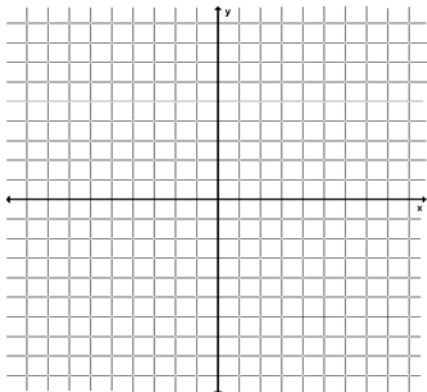


domain: _____

range: _____

comparison:

$$9.) y = \frac{1}{4}\sqrt{x-1} - 5$$

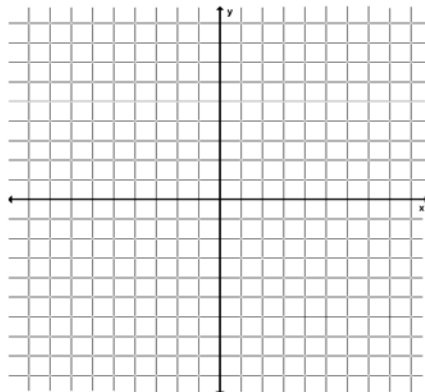


domain: _____

range: _____

comparison:

$$10.) g(x) = 4\sqrt[3]{x-4} + 5$$

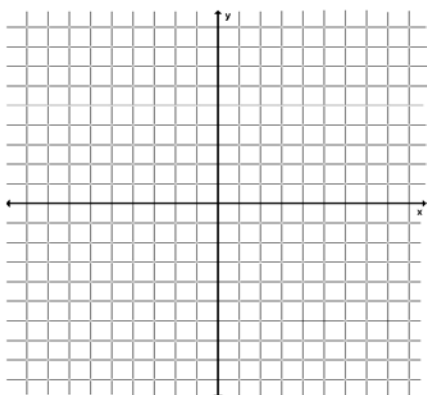


domain: _____

range: _____

comparison:

$$11.) f(x) = 2(x+1)^{1/2} + 2$$

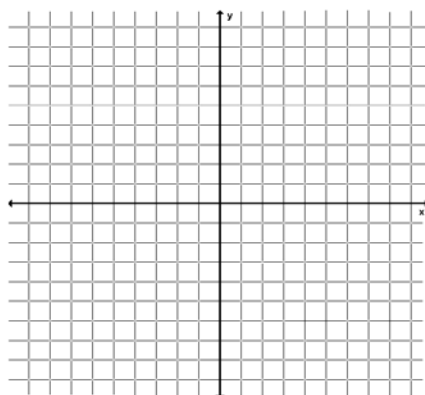


domain: _____

range: _____

comparison:

$$12.) y = \frac{3}{4}x^{1/3} - 1$$



domain: _____

range: _____

comparison:

Find the domain and range of the function without graphing.

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

domain: _____

range: _____

14.) $g(x) = \frac{1}{2}\sqrt[3]{x + 7}$

domain: _____

range: _____

15.) $y = \frac{1}{3}\sqrt{x} - 4$

domain: _____

range: _____

16.) $h(x) = \sqrt{x - 12}$

domain: _____

range: _____

17.) $y = \frac{1}{4}\sqrt{x - 3} + 6$

domain: _____

range: _____

18.) $f(x) = \sqrt[3]{x + 7}$

domain: _____

range: _____