

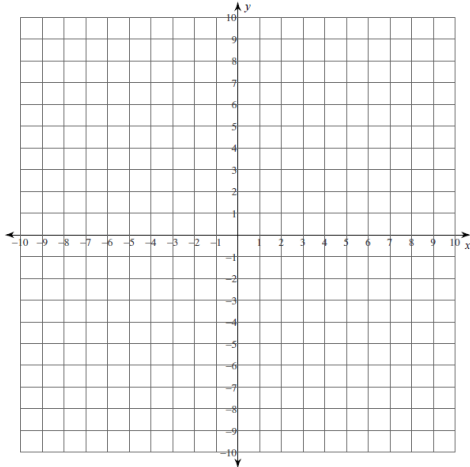
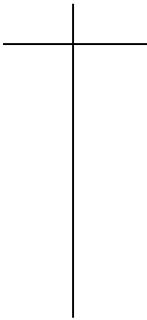
7.1 Review

7.1 I can graph square root and cube root functions and demonstrate understanding of the significant features of its graph.

Level 1

Graph each of the following

1. $y = \sqrt{x + 3} - 4$



Increasing or Decreasing? (Circle one)

Starting Point: _____

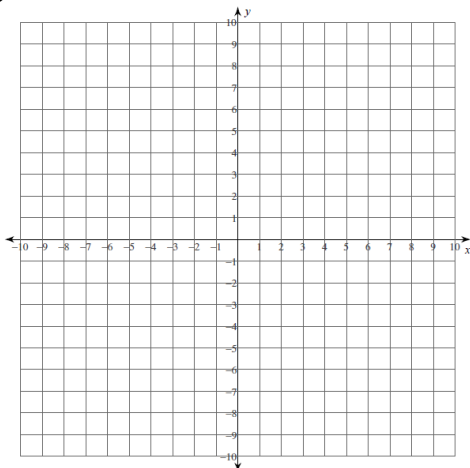
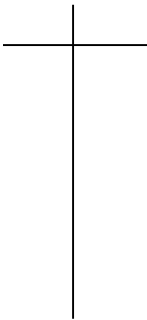
Domain: _____

Range: _____

x-intercept: _____

y-intercept: _____

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



Increasing or Decreasing? (Circle one)

Point of Inflection: _____

Domain: _____

Range: _____

x-intercept: _____

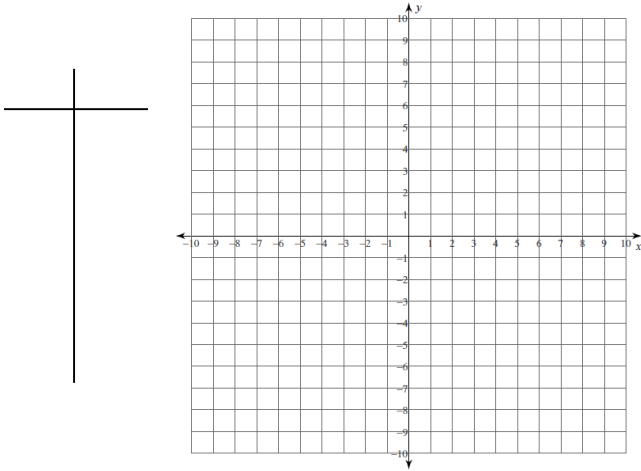
y-intercept: _____

Intermediate Algebra B

7.1 Review

Name _____

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



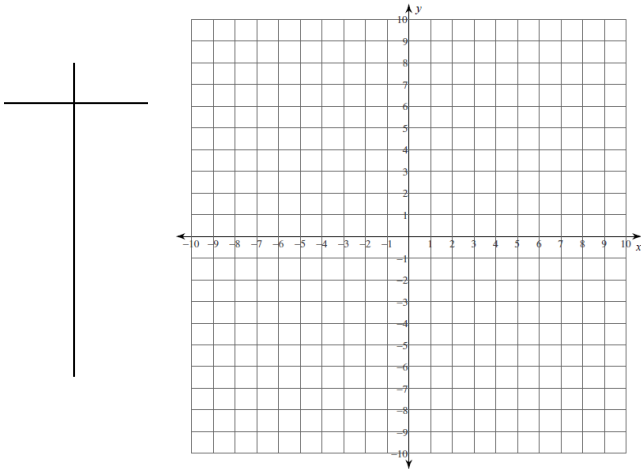
Increasing or Decreasing? (Circle one)

Point of Inflection: _____

Domain: _____

Range: _____

4. $y = -\sqrt{x} + 5$



Increasing or Decreasing? (Circle one)

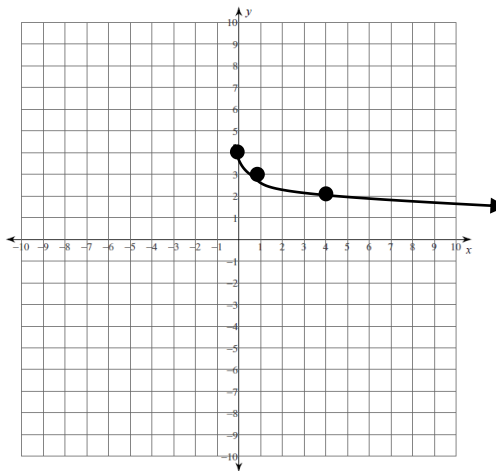
Starting Point: _____

Domain: _____

Range: _____

5. Which choice is the equation of the graph below?

- a. $f(x) = -\sqrt{x} + 4$
- b. $f(x) = -\sqrt{x+4}$
- c. $f(x) = -\sqrt{x} - 4$
- d. $f(x) = -\sqrt{x-4}$



7.1 Review

Level 2/3

6. When given the function $f(x) = \sqrt{x - 6} + 4$, Latisha says that domain $x \geq 6$ is and Rodney says the domain is $x \geq 4$. Who is correct? What could you say to help the other person understand their mistake?

7. Given the table below, write the equation for the cube root function.

x	y
-5	3
2	4
3	5
4	6
11	7

Equation: _____

8. Write the equation for a square root function that is decreasing, has been shifted to the right 3, and has been shifted down 5 from its parent function.