Intermediate Algebra B

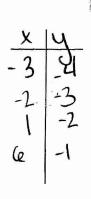
7.1 Review

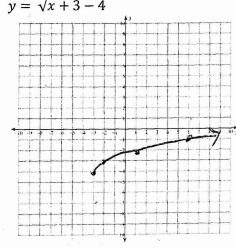
I can graph square root and cube root functions and demonstrate understanding of the 7.1 significant features of its graph.

Level 1

Graph each of the following

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



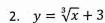


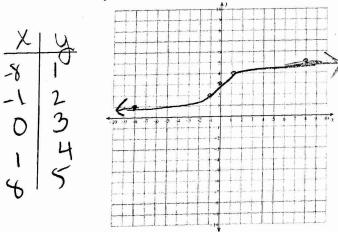
Increasing	or	Decreasing? (Circle one	:)
		(-2 11)	
Starting Poin	t٠	(), -4)	

Domain: $\chi \ge -3$

x-intercept:

y-intercept:





3	
Increasing or	Decreasing? (Circle one)
The state of the s	1/2)
Point of Inflection:	(O, O)

Domain:

Range:

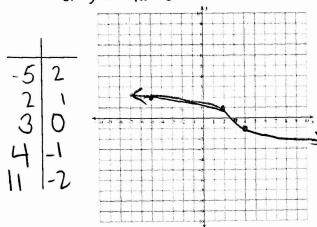
x-intercept: y-intercept:_

Intermediate Algebra B

Name

7.1 Review

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



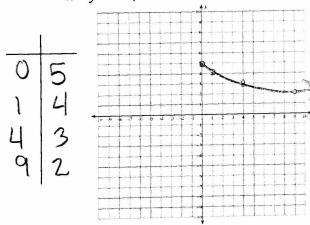
Decreasing? (Circle one) Increasing

Point of Inflection:

Domain:

Range:

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



Decreasing? (Circle one) Increasing or Starting Point:_

Domain:

Range:

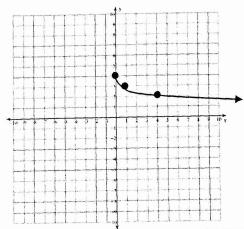
5. Which choice is the equation of the graph below?

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

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

c.
$$f(x) = -\sqrt{x-4}$$

$$d. \ f(x) = -\sqrt{x-4}$$



Intermediate Algebra B Graphing Radicals

Level 2/3

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

Latisha, Rodney is saying Range if Replace x with y

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: $y = \sqrt[3]{y-3} + 5$

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.

$$y = -\sqrt{x - 3} - 5$$