

Writing Equations given the transformations:

1. The parent function $f(x) = \sqrt{x}$ is ^{square root} reflected across the x-axis; stretched vertically by a factor of 4; and translated 1 unit up.

$$f(x) = -4\sqrt{x} + 1$$

2. The parent function $f(x) = \sqrt[3]{x}$ is ^{cubed root} stretched horizontally by a factor of 2; reflected across the y-axis; and translated 3 units left.

$$f(x) = \sqrt[3]{-\frac{1}{2}(x+3)}$$

* must include () if you also have a "b" value

Graphing Radicals with transformation. Use your graphing calculator to plot points.

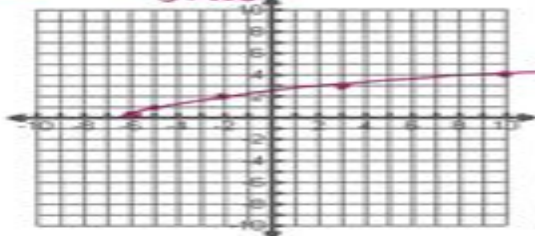
1. $f(x) = \sqrt{x+6}$

* Left 6

v: (-6, 0)

x	y
-7	error
-6	0
-5	1
-2	2
3	3

"shoot"

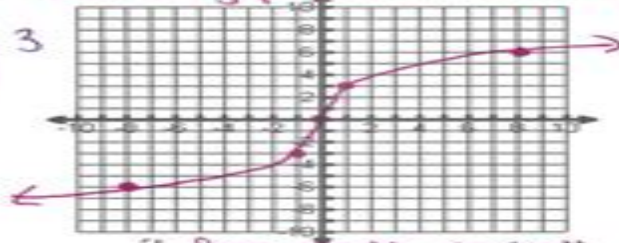


2. $f(x) = 3\sqrt[3]{x}$

* Vertical stretch by 3
v: (0, 0)

x	y
-8	-6
-1	-3
0	0
1	3
8	6

* Calc. may look like it has a gap but it doesn't



"free-style swim"

You try!

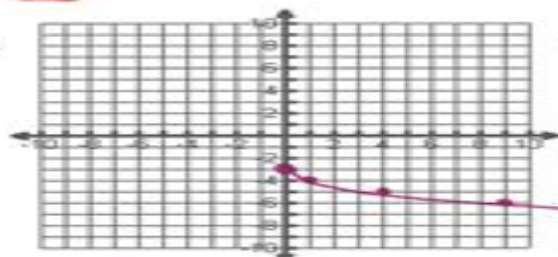
3. $f(x) = -\sqrt{x-3}$

* reflect x-axis

* down 3

v: (0, -3)

x	y
0	-3
1	-4
4	-5
9	-6



"bowling"

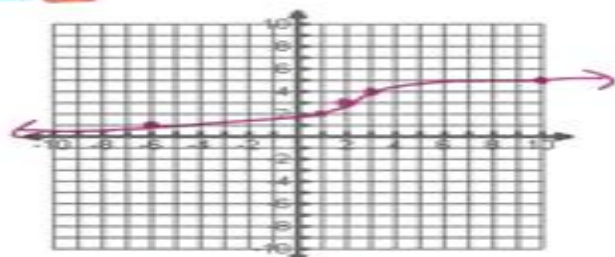
4. $f(x) = \sqrt[3]{x-2} + 3$

* right 2

* up 3

v: (2, 3)

x	y
-6	1
1	2
2	3
3	4
10	5



"free-style swim"

* A reflection on a cubed root would turn it into "back-stroke swim"

Graphing Practice Mixed Rational Answer Key

S Nieto



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