

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.

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

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

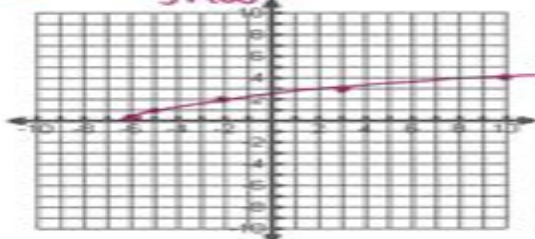
Graphing Radicals with transformation. Use your graphing calculator to plot points.

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

* Left 6
v: (-6, 0)

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

"shoot"

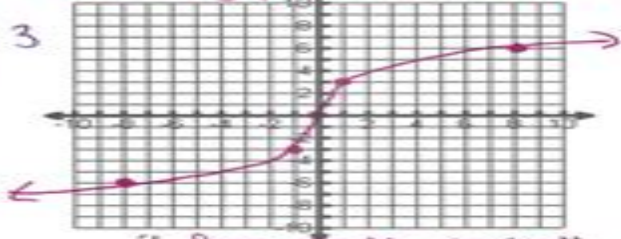


2. $f(x) = 3\sqrt[3]{x}$

* 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



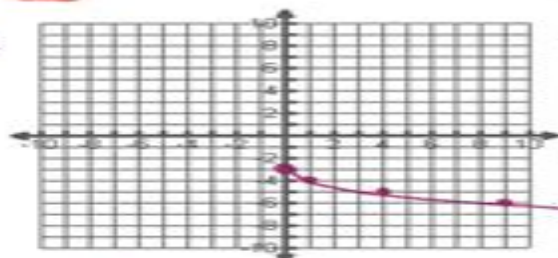
"free-style swim"

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

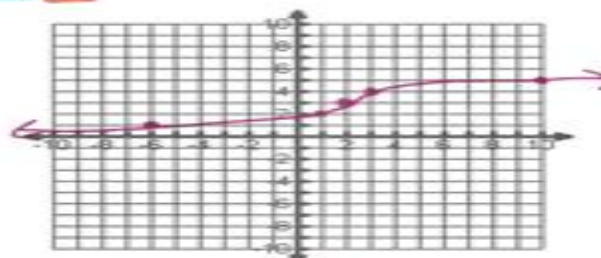


"bowling"

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"

Practice Rational Functions Answer Key

Lloyd N. Trefethen



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