Quiz 11.3

Find the inverse of the functions.
(Use the steps in your notes!)

1. $f(x) = x^2$

$y = x^2$

$\sqrt{x} = \sqrt{y^2}$

$\sqrt{x} = y$

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

2. $f(x) = x^3$

$y = x^3$

$\sqrt[3]{x} = \sqrt[3]{y^3}$

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

$f^{-1}(x) = \sqrt[3]{x}$

May 11-7:14 AM

11-3

I can graph the inverse functions of

$f(x) = x^2$ and $f(x) = x^3$

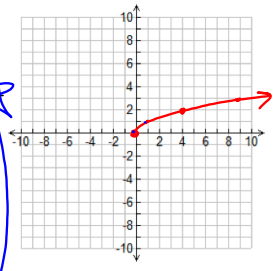
Feb 21-10:23 AM

Find the inverse algebraically then graph it.

$f(x) = x^2$

x	f(x)
-2	4
-1	1
0	0
1	1
2	4

f(x)	x
~~-2~~	
~~-1~~	
0	0
1	1
4	2
~~9~~	3



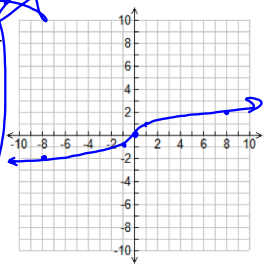
Feb 21-10:30 AM

Solve for the inverse algebraically then graph it.

$f(x) = x^3$

x	f(x)
-2	-8
-1	-1
0	0
1	1
2	8

f(x)	x
-8	-2
-1	-1
0	0
1	1
8	2



Feb 21-10:28 AM

Task Graphing Inverse Functions

$f(x) = a\sqrt{x-h}+k$ $\quad f(x) = a\sqrt[3]{x-h}+k$

Vertical stretch (mult y coords)

Shift right/left LIARS!

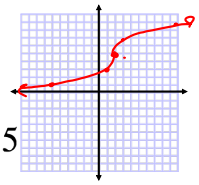
Shift up/down

Feb 9-10:55 PM

Check for understanding

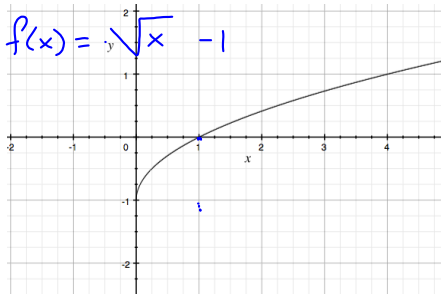
#1 Graph the function

$f(x) = 2\sqrt[3]{x-2}+5$



#2 Write an equation for the graph

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



Feb 21-10:33 AM

Honors

How do these graphs differ?

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

Feb 24-3:42 PM

Mar 11-9:15 AM