Name _____

Date _____

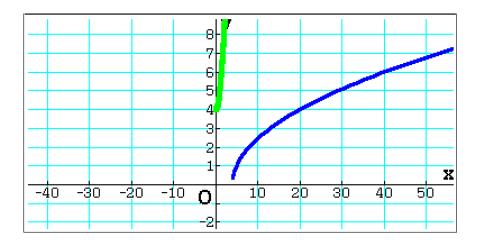
Graphing The Inverse of Functions - Guided Lesson Explanation

Explanation#1

Step 1) Start by determining standard x and y values by plugging x values into the function:

$$y = \sqrt{20 - 4}$$
 (x = 20)
y = 4

Step 2)This results in the point (20, 4). To find the inverse point, we would switch the x and y value (4, 20). We would follow this through all points and point the lines. The green line would result.



Explanation#2

Step 1) We would follow the same strategy. Pick an x value. Let's say 6.

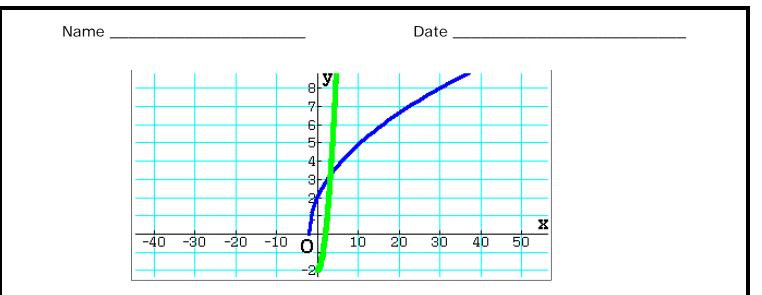
 $y = \sqrt{2(6) + 4} = \sqrt{12 + 4} = \sqrt{16} = 4$

This results in the point (6, 4).

Step 2) We would take the inverse of that point by switching the x and y values. (6,4) would become (4,6).

Step 3) We would repeat this process for a wide variety of points and plot them. The green line would result.





Explanation#3

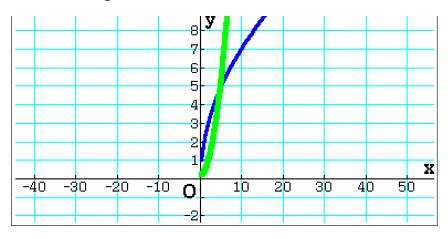
Step 1) We would follow the same strategy. Pick an x value. Let's say 1.

 $y = \sqrt{5(1) - 1} = \sqrt{5 - 1} = \sqrt{4} = 2$

This results in the point (1, 2).

Step 2) We would take the inverse of that point by switching the x and y values. (1,2) would become (2,1).

Step 3) We would repeat this process for a wide variety of points and plot them. The green line would result.



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