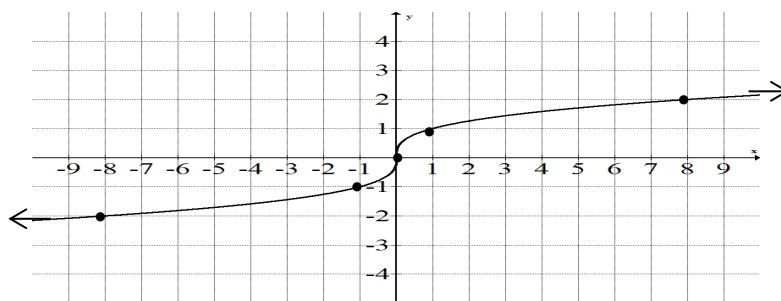
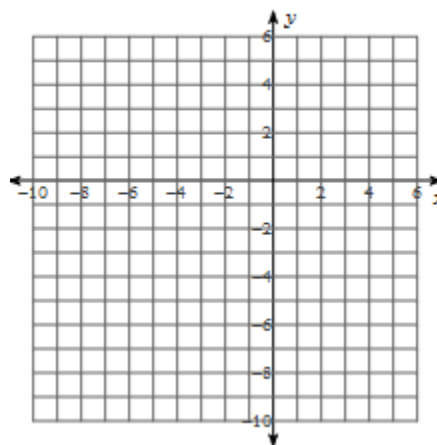


FYI: The parent graph of $y = \sqrt[3]{x}$ looks like this:



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

- a) Graph this function.
- b) Find the inverse of this function.



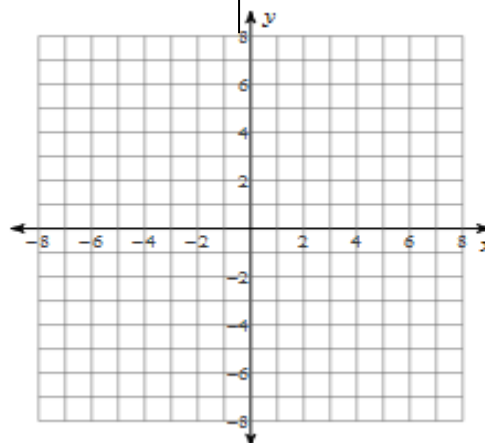
- c) Graph the inverse.
- d) Fill in an xy -table for both the function and its inverse.

x	$f(x)$

x	$f^{-1}(x)$

4) $f(x) = x^2 + 3$

- e) Graph this function.
- f) Find the inverse of this function.



- g) Graph the inverse.

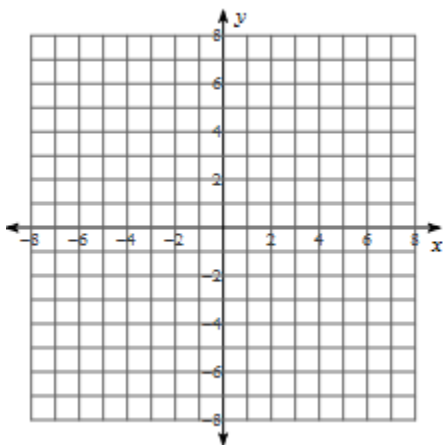
What do you notice about the coordinates of the function compared to the coordinates of the inverse?

The square root function will have a restricted domain, that is, only “half” of the parabola will be its inverse graph.

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

- a) Graph this function.
- b) Find the inverse of this function.

c) Graph the inverse



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

- a) Graph this function.
- b) Find the inverse of this function.

c) Graph the inverse

