

To find the inverse of a function:

1) Swap the x and y variables.

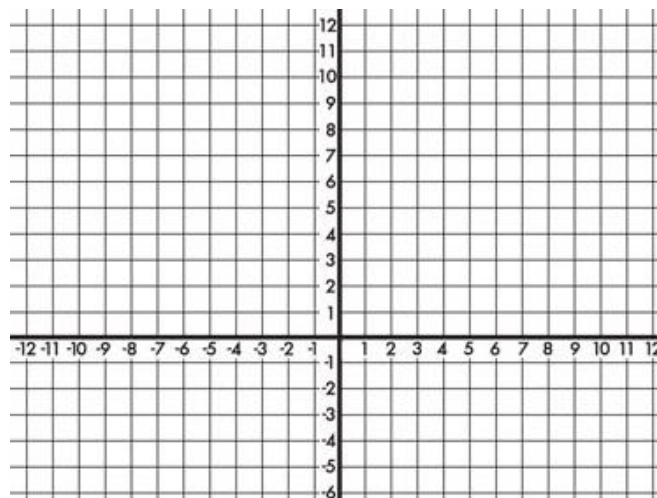
2) Rearrange for y .

3) Replace y with x to indicate the new equation is the $y = \dots$.

To check if 2 functions are inverses, make sure

$$f(g(x)) = x \text{ and } g(f(x)) = x.$$

Graphing the inverse of a function:



Only 1-to-1 functions have inverse functions.

①

②

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

Check:

Example 1

$$y = \frac{3}{x} - 2$$

Check:

Example 2