

2.1 Determining if Two Functions are Inverses

Standard: FCF.3.1 (partial)

Find the inverse of — functions using equations, tables, and graphs, — and prove by composition or verify by inspection that one function is the inverse of the another.

Notes and Definitions

An inverse function (labeled $f^{-1}(x)$) reverses the effect of the original function.

If a function f takes an input x and gives an output y , then its inverse function f^{-1} takes y and gives back x .

There are several ways to see if two existing functions are inverses. The first is through tables or ordered pairs. To see if two functions are inverses this way, simply match all of the x and y coordinates.

The following tables are inverses:

x	y
1	7
2	8
4	10

x	y
7	1
8	2
10	4

The following lists of ordered pairs are inverses:

$$\{(1, 2), (2, 4), (4, 9), (9, 4), 2)\} = \{(2, 1), (4, 2), (9, 4), (4, 9), 2)\}$$

If you switch x and y graphically, the graph becomes symmetrical over the line $y = x$. To be symmetrical means to be folded over the line.



In the above example, the dashed line is the line $y = x$. The two functions pictured are inverses because if you folded along the dashed line, they would align with one another.

You can verify that two functions are inverses algebraically by doing the composition of the two functions both ways and seeing if the composition each equal x .

The composition of two functions means applying one function to the result of another function.

If you have two functions, $f(x)$ and $g(x)$, the composition is written as:

$(f \circ g)(x)$ or $f(g(x))$, and backwards $(g \circ f)(x)$ or $g(f(x))$

To find $f(g(x))$ for example, plug the entire $g(x)$ into the x position of the function $f(x)$ and simplify.

$f(x)$ and $g(x)$ are inverses if $f(g(x)) = g(f(x)) = x$. This means: check in both directions and see if you get x as an answer.

Worked-out Examples

(1) Use composition to see if $f(x) = 2x - 6$ and $g(x) = \frac{1}{2}x + 3$ are inverses.

$$\text{Answer: } f(g(x)) = 2\left(\frac{1}{2}x + 3\right) - 6$$

$$f(g(x)) = x + 6 - 6$$

$$f(g(x)) = x$$

$$g(f(x)) = \frac{1}{2}(2x - 6) + 3$$

$$g(f(x)) = x - 3 + 3$$

$$g(f(x)) = x$$

Because $f(g(x)) = g(f(x)) = x$, these functions are inverses.

(2) If the table below shows some values for $f(x)$, find some values for $f^{-1}(x)$. (Remember, this means f inverse.)

x	y
-3	6
7	-2
0	0

Answer:

x	y
6	-3
-2	7
0	0

Just switch the columns.

(3) The graph of f is shown along with the line $y = x$. Draw the graph of f^{-1} .

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