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What is the domain of the inverse of a relation - Answers

How can you use inverse functions to help you find the answer? What

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restrictions are on the domain of  $v(x)$ ?  
Of  $v^{-1}(x)$ ? ... What is the inverse of the  
relation described by  $y = 8 - 3x$ ? 2.  
Consider the function  $h$ ,  $Z \rightarrow Z$  70 a. Find  
the domain and range of  $h$ . ... 6-7  
inverse solutions

Find The Inverse of a Relation -

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Questions With Detailed ...

Example Find the inverse of  $y = 2x + 1$

Solution We write  $x = 2y + 1$  We

solve:  $x - 1 = 2y$   $x - 1$   $y = 2$  We write  $x$

$- 1$   $f^{-1}(x) = 2$  Notice that the original

function took  $x$ , multiplied by 2 and

added ...

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Inverse Relation Worksheets - Teacher  
Worksheets

that the inverse relation has domain  
( $-\infty$ ,  $8$ ) and range  $[8, \infty)$ . By restricting  
the domain of the inverse relation to ...  
input value, so an inverse exists.

ANSWER:  $f^{-1}$  exists. Graph each  
function using a graphing calculator,



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and apply the horizontal line test to

$g \circ h \circ y \circ x$  (Lesson 7-8)  $f \circ x \circ f \circ x \circ g \circ x \circ xy \circ g$   
 $x \circ g \circ x \circ h \circ x \circ f \circ x \circ f \dots$

to discover the inverse you may desire  
to isolate the  $x$  in the equation... after  
which you alter  $x$  to  $y$  and  $y$  to  $x$ . once  
you're placing apart  $x$ , if there is

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greater than a answer, then this is mandatory to limit the area of the function, in any different case the inverse would not exist.

WORKSHEET 7.4 INVERSE  
FUNCTIONS Inverse Relations Find  
the ...

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Find the inverse of each function.

Then graph the function and its

inverse. 7.  $f(x) = -3x + 4$  8.  $g(x) = 3 + x$

9.  $y = 3x - 2$  Determine whether each  
pair of functions are inverse functions.

Write yes or no. 10.  $f(x) = x + 6$  11.

$f(x) = -4x + 1$  12.  $g(x) = 13x - 13$   $g(x) =$

$x - 6$   $g(x) = -1(1 - 4 - x)$   $h(x) = -1x + 13$

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- 1 13.  $f(x) = 2x$  14.  $f(x) = -6 \dots$

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What is an inverse Relation - Answers

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Relations and Functions

Since relation #1 has ONLY ONE  $y$

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value for each  $x$  value, this relation is a function. On the other hand, relation #2 has TWO distinct  $y$  values 'a' and 'c' for the same  $x$  value of '5' . Therefore, relation #2 does not satisfy the definition of a mathematical function.



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Definition: The inverse of a function is when the domain and the range trade places. All elements of the domain become the range, and all elements of the range become the domain. All elements of the domain become the range, and all elements of the range become the domain.

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## 7-2 Inverses of Relations and Functions

Find the inverse of each function.

Then graph the function and its

inverse. 7.  $y = 4$  8.  $f(x) = 3x$  9.  $f(x) = x^2 + x$

14.  $f(x) = \frac{1}{3}x$  10.  $g(x) = 2x + 1$

11.  $h(x) = \frac{1}{4}x$  12.  $y = 2 + 3x^2$  13.  $g(x) = x^2 + 2$

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1.  $h(x) = 4xy - 3$ ,  $g(x) = \frac{1}{3}x + 3$ . Determine whether each pair of functions are inverse functions.  
13.  $f(x) = x + 1$ ,  $g(x) = x - 1$ . no  
14.  $f(x) = 2x + 3$ ,  $g(x) = \frac{1}{2}x - \frac{3}{2}$ . yes  
15.  $f(x) = 5x + 5$ ,  $g(x) = \frac{1}{5}x - 1$ . no

6-7 inverse solutions - Verona Public Schools

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7-2 Inverses of Relations and Functions 499 When the relation is also a function, you can write the inverse of the function  $f(x)$  as  $f^{-1}(x)$ . This notation does not indicate a reciprocal. Functions that undo each other are inverse functions.

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Math Functions and Relations, what makes them different ...

Graph the inverse of each relation.

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Cognero Page 1 4-7 Inverse Linear

Functions. Graph the inverse of each

relation. 62/87,21 The graph of the relation passes through the points at (

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-5, 1), (0, 2), and (5, 3).

IXL - Find inverse functions and relations (Algebra 2 ...

Find an equation for the inverse for each of the following relations.

3.  $y = 3x - 2$   
4.  $y = 5x + 7$   
5.  $y = 12x - 3$   
6.  $y = 8x + 16$   
7.  $x = 5y + 3$   
8.  $x = 5 - 4y$   
9.  $x = 10 - 8y$   
10.  $x = 8y$

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2 1 y 11.  $y = x^2 - 5$  12.  $y = x^2 + 4$  13.  $y = (x - 3)$   
14.  $y = (x - 6)^2$  15.  $y = x^2$ ,  $y = t^0$  16.  $y = x^5$ ,  $y = t^0$   
17.  $y = x^8$ ,  $y = t^8$  18.  $y = x^7$ ,  $y = t^7$

Verifying Inverses Verify that  $f$  and  $g$  are inverse functions. 19.

Inverse of a function in math. Tutorial explaining ...



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For any relation  $y = f(x)$  the domain is all acceptable values of  $x$  and the range,  $y$ , is all answers of the function. The inverse relation would take all  $y$  values of the original function, what was ...

functions inverse relations Flashcards

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and Study ... - Quizlet

The graph of the inverse relation is obtained by connecting the inverted points as shown below so that the given graph and the inverse are reflection of each other on the line  $y = x$ . Questions. Sketch the graph of the inverse of each of the relations given

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by its graph below: a) b) Solutions to  
the Above Questions a) Solution to  
part a)

4%2D7 Inverse Linear Functions

We are asked in the problem to  
determine the inverse of the relation  $y$   
 $= 3x + 12$ . first step is to express the

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equation in terms of  $y$ , that is  $y - 12 = 3x$ , then exchange the places of  $x$  and  $y$ , that is  $x - 12 = 3y$ . This is the final answer

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Yahoo Answers

The inverse of a relation is a relation

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obtained by reversing or swapping the coordinates of each ordered pair in the relation. If the relation is described by an equation in the variables  $x$  and  $y$ , the equation of the inverse relation is obtained by replacing every  $x$  in the equation with  $y$  and every  $y$  in the equation with  $x$ .

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