

# 7-4 Inverses

Name: \_\_\_\_\_

Time> Start: \_\_\_\_\_ Finish: \_\_\_\_\_ Total Time = \_\_\_\_\_

Give the inverse of the given table.

1. 

x	y
2	4
-3	1
0	-1

x	y

2. 

x	y
3	6
0	2
1	-4

x	y

3. 

x	y
4	4
-2	1
-6	8

x	y

Give the inverse of the given set.

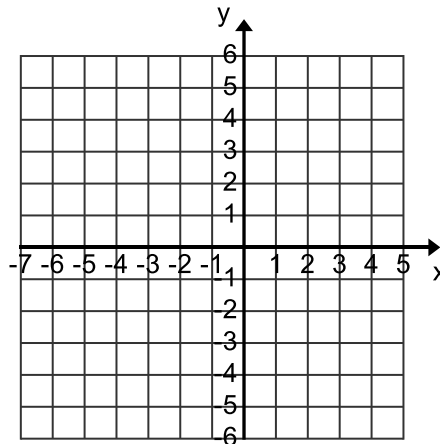
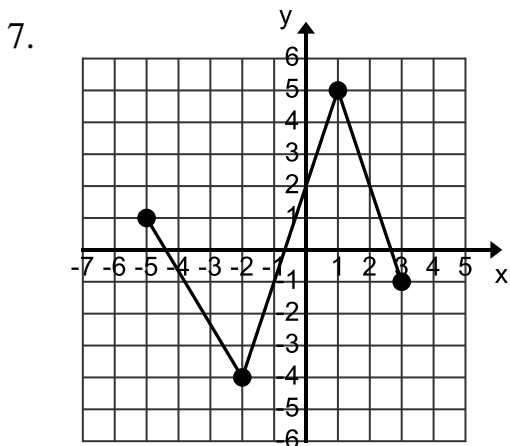
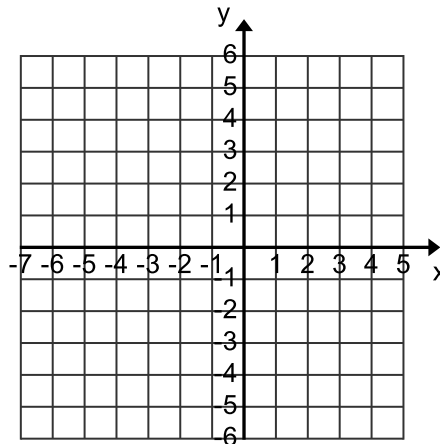
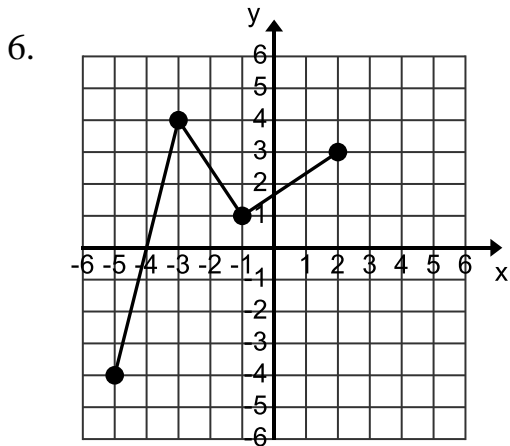
4.  $f(x) = \{(2, 4) (5, 6) (-1, 2)\}$

$f^{-1}(x) =$  \_\_\_\_\_

5.  $f(x) = \{(-4, 6), (-1, 0)\}$

$f^{-1}(x) =$  \_\_\_\_\_

Graph the inverse of the given graph.



Find the inverse of the function. Show your work on a separate piece of paper or to the side.

\_\_\_\_\_ 8.  $f(x) = 3x - 4$

\_\_\_\_\_ 9.  $f(x) = x^2 - 4$

\_\_\_\_\_ 10.  $f(x) = \frac{x+8}{2}$

\_\_\_\_\_ 11.  $f(x) = \frac{x}{2} - 7$

\_\_\_\_\_ 12.  $f(x) = (5x - 2)^2$

Determine if the given two functions are inverses of each other. Yes or No as the answer, but show your work.

\_\_\_\_\_ 13.  $f(x) = \frac{x+2}{3}$        $g(x) = 3x - 2$

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

\_\_\_\_\_ 15.  $f(x) = (x - 4)^2 + 3$        $g(x) = \sqrt{x-3} + 4$