

Math Worksheet: Graphs of Functions (4)

1. Graph function f given by

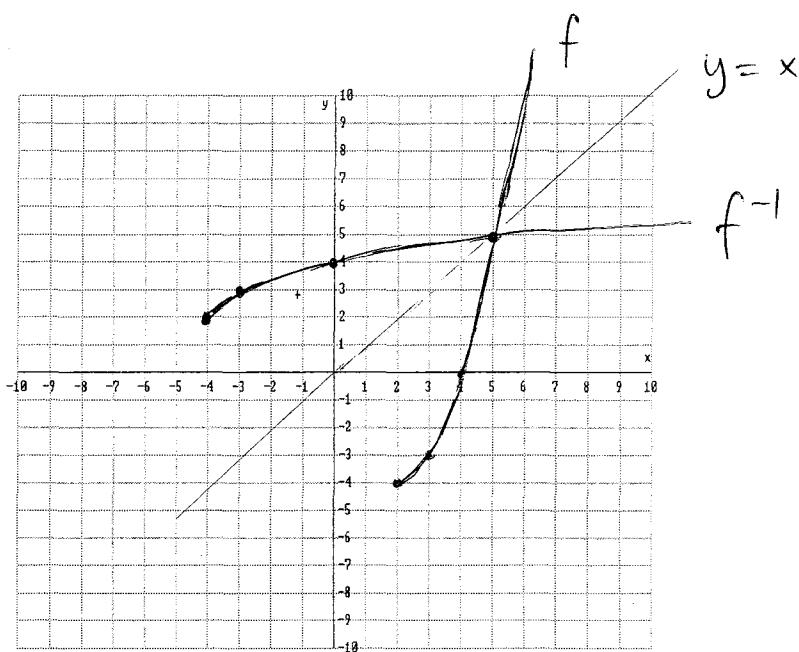
$$f(x) = x^2 - 4x \quad , \quad \text{for } x \geq 2$$

$$(x-1) = (x-2)^2 - 4$$

vertex $(2, -4)$

x $f(x)$

2	-4
3	-3
4	0
5	5



2. Find the inverse of function f , including its domain and range.

$$f^{-1}(x) = 2 + \sqrt{x+4}, \text{ Domain: } [-4, +\infty), \\ \text{Range: } [2, +\infty)$$

3. Graph the inverse of function f in the same system of axes as the graph of f and compare the two graphs.

use above
table to
get

x	$f^{-1}(x)$
-4	2
-3	3
0	4
5	5

The two graphs
are reflections
on $y = x$.