

Domain, Range and Inverse functions

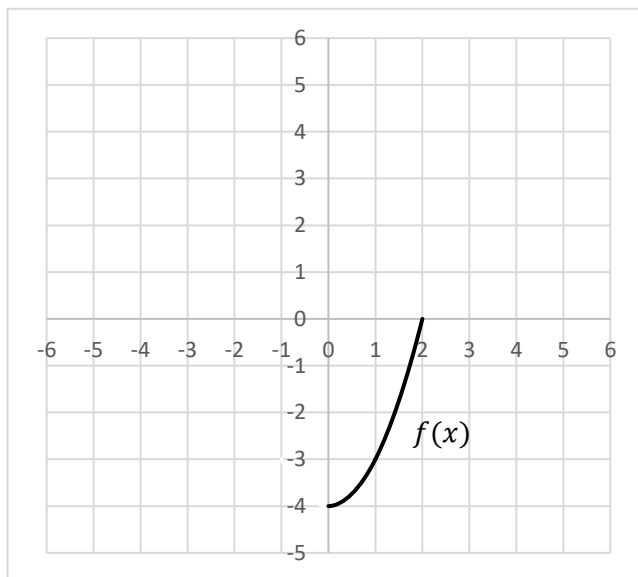
1. a) Inverse functions, $f^{-1}(x)$, are obtained by _____ the x and y variables in an equation.

Complete the table for the graph, $f(x)$:

x	0	1	2
$f(x)$	-4	-3	

To find the inverse function, $f^{-1}(x)$, switch the ___ and ___ co-ordinates and plot them on the graph (use table below if it helps).

x			
$f^{-1}(x)$			



- b) How could you have graphed the function faster? (Hint: which line would you draw?)
- c) The domain is the possible values for _____. Write the domain for $f(x)$, then for $f^{-1}(x)$
- d) The range is the possible values for _____. Write the range for $f(x)$, then for $f^{-1}(x)$
- e) Why is it not possible to find the inverse function for $g(x)$ below?

- f) State the domain and range for $g(x)$

