

The graph of the function f is plotted below

Use the graph to find values of

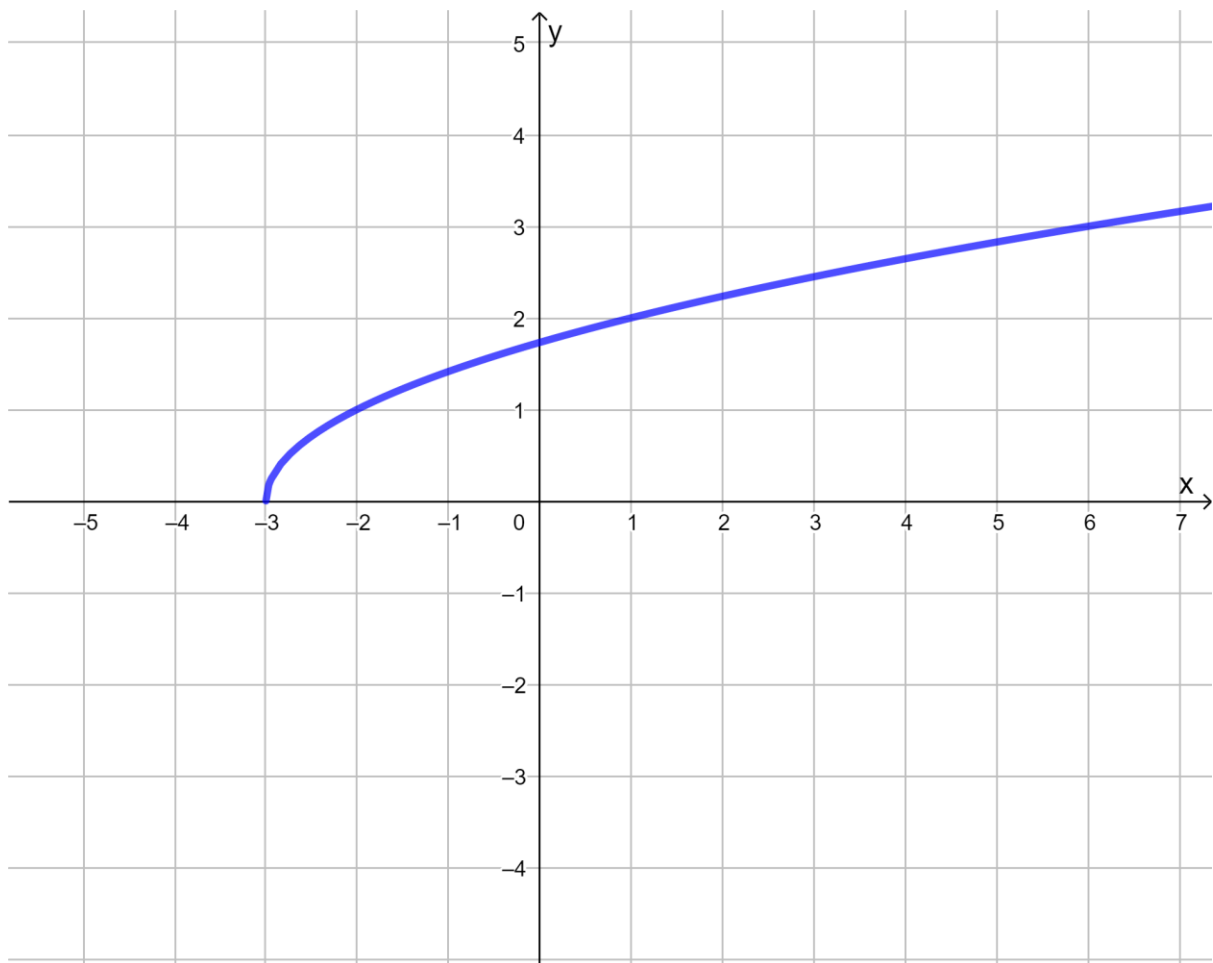
a) $ff(-2)$

b) $f^{-1}(0)$

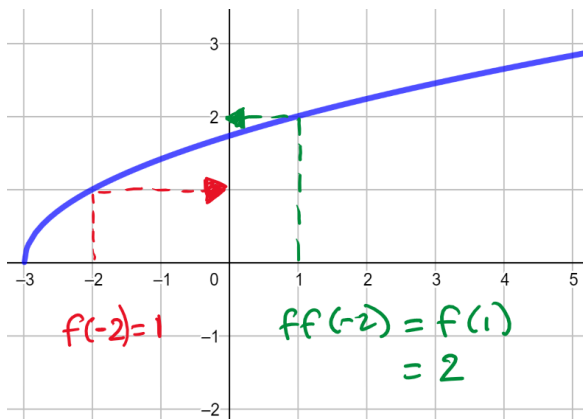
Let g be the function such that $g(x) = 4x + 2$

c) Work out $fg(1)$

d) Draw a sketch of the graph $y = f^{-1}(x)$



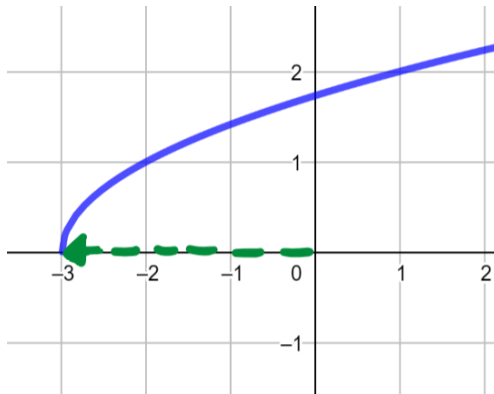
a) $ff(-2) = f(1) = 2$



b) If $f^{-1}(0) = x$, then $f(x) = 0$

$x = -3$

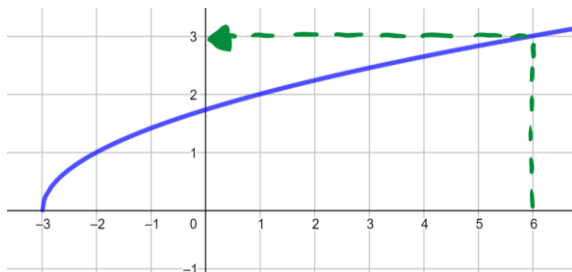
$f^{-1}(0) = -3$



c) If $g(x) = 4x + 2$, then $g(1) = 6$

So, $fg(1) = f(6) = 3$

$fg(1) = 3$



d)

The inverse function is a reflection in the line $y = x$

