

The diagram shows the graph of y = f(x).

(a) On this diagram sketch the graph of $y = f^{-1}(x)$. [1]

It is now given that $f(x) = -\frac{x}{\sqrt{4 - x^2}}$ where -2 < x < 2.

(b)	Find an expression for $f^{-1}(x)$.	[4]

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The	function g is defined by $g(x) = 2x$ for $-a < x < a$, where a is a constant.	
(c)	State the maximum possible value of <i>a</i> for which fg can be formed.	[1]
(d)		
	Assuming that fg can be formed, find and simplify an expression for $fg(x)$.	[2]
	Assuming that fg can be formed, find and simplify an expression for $fg(x)$.	

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