

The function f is defined by $f(x) = \frac{2}{x^2} + 4$ for x < 0. The diagram shows the graph of y = f(x).

(a)	On this diagram, sketch the graph of $y = f^{-1}(x)$. Show any relevant mirror line.	[2]
(b)	Find an expression for $f^{-1}(x)$.	[3]
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(c)	Solve the equation $f(x) = 4.5$.	[1]
(d)	Explain why the equation $f^{-1}(x) = f(x)$ has no solution.	[1]