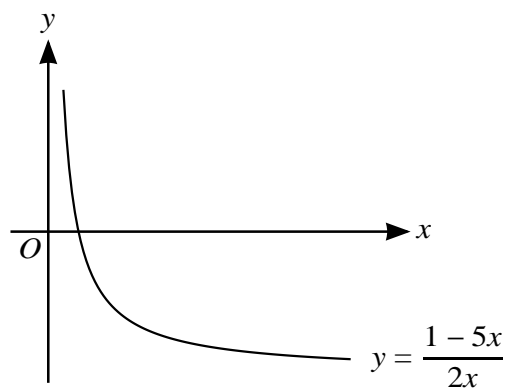


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The diagram shows the graph of $y = f^{-1}(x)$, where f^{-1} is defined by $f^{-1}(x) = \frac{1 - 5x}{2x}$ for $0 < x \leq 2$.

(i) Find an expression for $f(x)$ and state the domain of f . [5]

(ii) The function g is defined by $g(x) = \frac{1}{x}$ for $x \geq 1$. Find an expression for $f^{-1}g(x)$, giving your answer in the form $ax + b$, where a and b are constants to be found. [2]