



- 5 The function f is defined by $f(x) = \frac{2x+1}{2x-1}$ for $x < \frac{1}{2}$.

(a) (i) State the value of $f(-1)$.

[1]

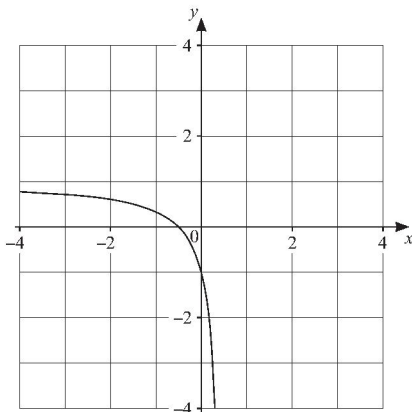
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(ii)



The diagram shows the graph of $y = f(x)$. Sketch the graph of $y = f^{-1}(x)$ on this diagram. Show any relevant mirror line. [2]

- (iii) Find an expression for $f^{-1}(x)$ and state the domain of the function f^{-1} . [4]

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(b) Solve the equation $f(x) = gf\left(\frac{1}{4}\right)$. [3]