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Inverse Functions|Past Paper Question | C3 Edexcel January 2012 Q7b

$$f(x) = \frac{1}{2x-1}, \quad x \in \mathbb{R}, x > \frac{1}{2}$$

Find $f^{-1}(x)$

let

$$x = \frac{1}{2y-1}$$

$$\therefore x(2y-1) = 1$$

$$\therefore 2xy - x = 1$$

$$\therefore 2xy = 1 + x$$

$$\therefore y = \frac{1+x}{2x}$$

$$\therefore f^{-1}(x) = \frac{1+x}{2x}$$

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