



Air maths tuition

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## Inverse functions: Example 1

$$\text{If } f(x) = \frac{3x-2}{8} \text{ find } f^{-1}(x)$$

$$\text{let } x = \frac{3y-2}{8}$$

$$\therefore 8x = 3y - 2$$

$$\therefore 8x + 2 = 3y$$

$$\therefore y = \frac{8x+2}{3}$$

$$\therefore f^{-1}(x) = \frac{8x+2}{3}$$

$$x=6$$

$$f(6) = 2$$

$$f^{-1}(2) = 6$$



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