

# IGCSE – Functions – 3

May 06 Paper 2  
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$$f(x) = \frac{x+3}{x}, \quad x \neq 0.$$

(a) Calculate  $f\left(\frac{1}{4}\right)$ .

*Answer(a)* ..... [1]

(b) Solve  $f(x) = \frac{1}{4}$ .

*Answer(b)*  $x =$  ..... [2]

Oct 06 Paper 2 -  
15  $f: x \mapsto 5 - 3x$ .

(a) Find  $f(-1)$ .

*Answer(a)* ..... [1]

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

*Answer(b)* ..... [2]

(c) Find  $ff^{-1}(8)$ .

*Answer(c)* ..... [1]

May 05 Paper 4

8  $f(x) = x^2 - 4x + 3$  and  $g(x) = 2x - 1$ .

(a) Solve  $f(x) = 0$ . [2]

(b) Find  $g^{-1}(x)$ . [2]

(c) Solve  $f(x) = g(x)$ , giving your answers correct to 2 decimal places. [5]

(d) Find the value of  $gf(-2)$ . [2]

(e) Find  $fg(x)$ . Simplify your answer. [3]