

10

$$f(x) = 2x - 1$$

$$g(x) = x^2 + x$$

$$h(x) = \frac{2}{x}, \quad x \neq 0$$

(a) Find  $ff(3)$ .

$$\begin{aligned} ff(3) &= f(2(3) - 1) = f(5) \\ &= 2(5) - 1 = 9 \end{aligned}$$

Answer(a) ..... 9 ..... [2]

(b) Find  $gf(x)$ , giving your answer in its simplest form.

$$\begin{aligned} gf(x) &= g(2(x) - 1) = (2(x) - 1)^2 + (2(x) - 1) \\ &= 4x^2 - 4x + 1 + 2x - 1 = 4x^2 - 2x \end{aligned}$$

Answer(b) .....  $4x^2 - 2x$  ..... [3](c) Find  $f^{-1}(x)$ .

$$\begin{aligned} \text{Let } f^{-1}(x) &= y, \quad f(y) = x, \quad 2y - 1 = x \\ 2y &= x + 1, \quad y = \frac{x+1}{2}, \quad \text{so } f^{-1}(x) = \frac{x+1}{2} \end{aligned}$$

Answer(c)  $f^{-1}(x) = \dots\dots\dots \frac{x+1}{2} \dots\dots\dots$  [2](d) Find  $h(x) + h(x+2)$ , giving your answer as a single fraction.

$$\begin{aligned} h(x) + h(x+2) &= \frac{2}{x} + \frac{2}{x+2} = \frac{2(x+2) + 2x}{x(x+2)} \\ &= \frac{4x+4}{x(x+2)} = \frac{4(x+1)}{x(x+2)} \end{aligned}$$

Answer(d) .....  $\frac{4(x+1)}{x(x+2)}$  ..... [4]

Question 11 is printed on the next page.

# How To Do Question 10 Igcse 0580 43 2013

**Karen Morrison, Nick Hamshaw**



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