1 $f(x) = 6x - 1$ $\qquad$ $g(x) = 8x^2$

(a) Work out the value of f(10)

....

(1)

(b) Work out the value of g(5)

....

(1)

(c) Work out the value of f(-2) + g(2)

....

(2)

(d) Work out the value of f(0.5) – g(0.5)

....

(2)

(Total for Question 1 is 6 marks)

1

2 $f(x) = 9 - x^2$ $\qquad$ $g(x) = \dfrac{3}{x}$ $\qquad$ $h(x) = 2^x$

(a) Work out the value of f(-2)

....

(1)

(b) Work out the value of g(0.5)

....

(1)

(c) Work out the value of h(4)

....

(1)

(d) Work out the value of f($\sqrt{3}$)

....

(2)

(e) Work out the value of g(4) + h(-2)

....

(2)

(Total for Question 2 is 7 marks)

2

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3 $f(x) = x^2 + 6x - 40$ $\qquad$ $g(x) = \dfrac{1}{x-4}$ $\qquad$ $h(x) = \sqrt{2x-3}$

(a) Work out the value of f(2)

....

(1)

(b) Work out the value of g(7)

....

(1)

(c) Work out the value of h(26)

....

(1)

(d) Work out the value of $g\left(\dfrac{23}{5}\right)$

....

(2)

(e) Work out the value of f(10) × g(10)

....

(2)

(Total for Question 3 is 7 marks)