

Functions – 2023 IGCSE Math 0444

1. June/2023/Paper_0444/41/No.7

$f(x) = x - 4$ $g(x) = 2x + 5$ $h(x) = 3^x$

(a) Find $f(-3)$.

..... [1]

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

$g^{-1}(x) =$ [2]

(c) The domain of $h(x)$ is $-3 \leq x \leq 5$.

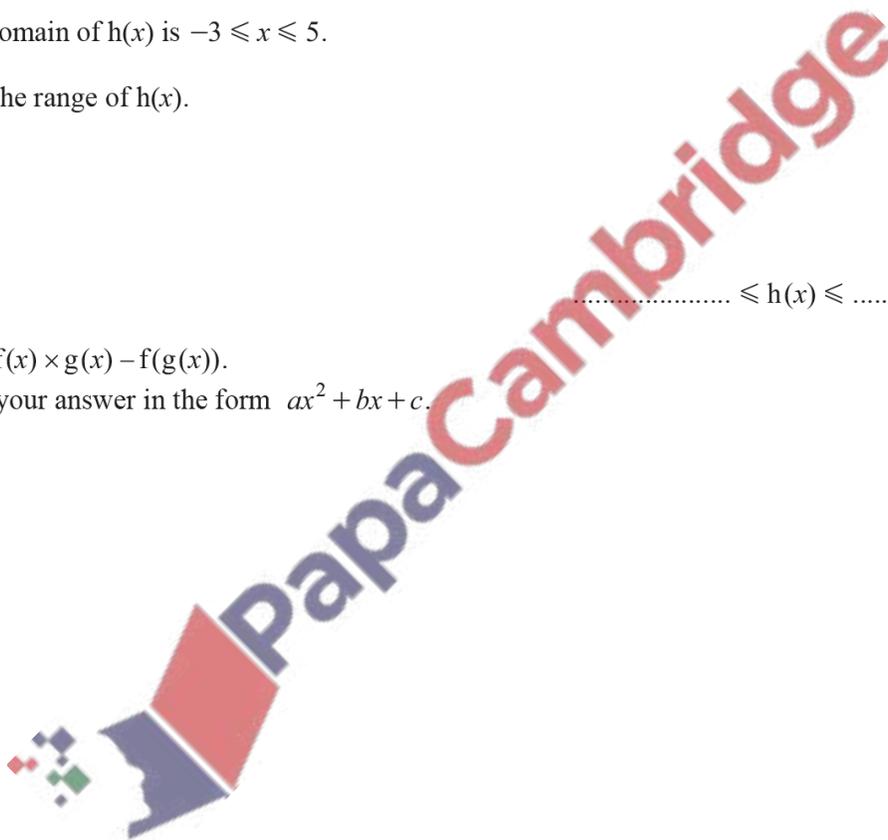
Find the range of $h(x)$.

..... $\leq h(x) \leq$ [2]

(d) Find $f(x) \times g(x) - f(g(x))$.

Give your answer in the form $ax^2 + bx + c$.

..... [4]



(e) Find x when $h(x) = g(f(2))$.

$x = \dots\dots\dots$ [2]

(f) Find x when $h^{-1}(x) = -2$.

$x = \dots\dots\dots$ [2]

