#### AS-Level

#### Topic: Functions

#### May 2013 - May 2022

#### Question 1

The function f is defined by  $f: x \mapsto 2x + k, x \in \mathbb{R}$ , where k is a constant.

(I) In the case where k = 3, solve the equation ff(x) = 25.

The function g is defined by  $g: x \mapsto x^2 - 6x + 8, x \in \mathbb{R}$ .

(ii) Find the set of values of k for which the equation f(x) = g(x) has no real solutions. [3]

[2]

[3]

The function h is defined by h:  $x \mapsto x^2 - 6x + 8, x > 3$ .

(iii) Find an expression for h<sup>-1</sup>(x). [4]

Question 2

- (i) Express  $2x^2 12x + 13$  in the form  $a(x+b)^2 + c$ , where a, b and c are constants. [3]
- (ii) The function f is defined by f(x) = 2x² 12x + 13 for x ≥ k, where k is a constant. It is given that f is a one-one function. State the smallest possible value of k.
  [1]

The value of k is now given to be 7.

- (III) Find the range of f. [1]
- (iv) Find an expression for  $f^{-1}(x)$  and state the domain of  $f^{-1}$ . [5]

#### Question 3

The function f is defined by  $f: x \mapsto x^2 + 4x$  for  $x \ge c$ , where c is a constant. It is given that f is a one-one function.

(i) State the range of f in terms of c and find the smallest possible value of c. [3]

The function g is defined by  $g: x \mapsto ax + b$  for  $x \ge 0$ , where a and b are positive constants. It is given that, when c = 0, gf(1) = 11 and fg(1) = 21.

(ii) Write down two equations in a and b and solve them to find the values of a and b.
[6]

#### Question 4

Solve the inequality  $x^2 - x - 2 > 0$ .

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**Brendan G. Carr** 

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