

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  $ff(x) = 25$ . [2]

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]

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

- (iii) Find an expression for  $h^{-1}(x)$ . [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  $f(x) = 2x^2 - 12x + 13$  for  $x \geq k$ , 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  $x \geq c$ , 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  $x \geq 0$ , 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  $x^2 - x - 2 > 0$ . [3]

# Igcse O Level Pure Maths Question Paper Jan 24

**Ying-Ying Zheng**



**Igcse O Level Pure Maths Question Paper Jan 24:**

## **Igcse O Level Pure Maths Question Paper Jan 24** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Igcse O Level Pure Maths Question Paper Jan 24**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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