

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]

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