

Subject - Math AA(Standard Level)
Topic - Functions
Year - May 2021 - Nov 2022
Paper -1
Questions

Question 1

[Maximum mark: 5]

The functions f and g are defined such that $f(x) = \frac{x+3}{4}$ and $g(x) = 8x+5$.

(a) Show that $(g \circ f)(x) = 2x + 11$. [2]

(b) Given that $(g \circ f)^{-1}(a) = 4$, find the value of a . [3]

Question 2

[Maximum mark: 14]

Let $f(x) = mx^2 - 2mx$, where $x \in \mathbb{R}$ and $m \in \mathbb{R}$. The line $y = mx - 9$ meets the graph of f at exactly one point.

(a) Show that $m = 4$. [6]

The function f can be expressed in the form $f(x) = 4(x-p)(x-q)$, where $p, q \in \mathbb{R}$.

(b) Find the value of p and the value of q . [2]

The function f can also be expressed in the form $f(x) = 4(x-h)^2 + k$, where $h, k \in \mathbb{R}$.

(c) Find the value of h and the value of k . [3]

(d) Hence find the values of x where the graph of f is both negative and increasing. [3]

Math Ib Sl 2012 Paper 1 Tz1

Eran Levin



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Mathematics 2012 Ibrahim Wazir,Tim Garry,2012-03 Written by an expert author team consisting of former IB chief examiners senior examiners and assistant examiners experienced IB workshop leaders and teachers with more than 160 years of combined teaching experience

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ANSWER KEY

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Standard Level

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