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 = f)⁻¹(a) = 4, find the value of a.
 [3]

Ouestion 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.

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 $f(x) = 4(x - k)^2 + k$, 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]

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