

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

Question 1

[Maximum mark: 5]

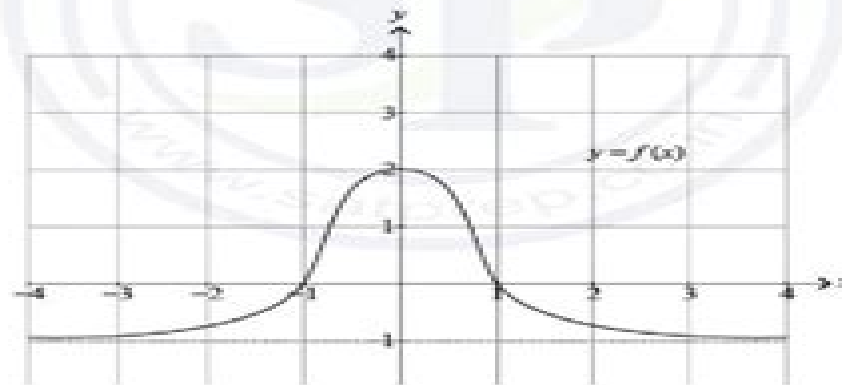
The functions f and g are defined such that $f(x) = \frac{x+3}{4}$ and $g(x) = 8x + 5$.

- (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: 5]

The following diagram shows the graph of $y = f(x)$. The graph has a horizontal asymptote at $y = -1$. The graph crosses the x -axis at $x = -1$ and $x = 1$, and the y -axis at $y = 2$.



On the following set of axes, sketch the graph of $y = [f(x)]^2 + 1$, clearly showing any asymptotes with their equations and the coordinates of any local maxima or minima.

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