# 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 ∘ f)(x) = 2x − 11.
- (b) Given that  $(g \circ f)^{-1}(a) = 4$ , find the value of a. [3]

[2]

#### 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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