

**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]

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