

# GRADE 10 MATHEMATICS SEPTEMBER TEST 1

## Trigonometry & Statistics

### QUESTION 1

The graphs below shows the functions of  $f(x) = 2 \sin x$  and  $g(x) = a + \cos x$  for  $x \in [0^\circ; 360^\circ]$ . Use the graphs to answer the following questions:



1.1 What is the value of  $a$ ?

(2)

.....

(1)

.....

(1)

.....

(1)

.....

.....

1.6 What transformation needs to be applied to graph/function  $f$  to transform this function to represent the function  $h(x) = 2 \cos x$ ?

(1)

[8]

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