

Mathematics Gr.10 June Paper 1 (0001)

Time: 2H

Total: 100 marks

Question 1: [4]

1.1 Given: 111 ; $\sqrt[3]{-8}$; $4, \dot{3}$; $\sqrt{20}$ and $\frac{5}{2}$

- (a) Write down the integer(s). (1)**
(b) Write down the irrational number(s). (1)

1.2 Write the following in interval notation and present it on a graph: (2)

$$\{x / -2 \leq x < 3 ; x \in \mathbb{R}\}$$

Question 2: [11]

2.1 Simplify the following products:

- (a) $7 - (gh + 3) - g(h + 1)$ (3)**
(b) $(m - 5n)(m + 5n)$ (1)
(c) $(a - b)(a^2 + 2ab + b^2)$ (2)
(d) $(x - 2)^2 (x + 2)^2$ (3)

2.2 The length of a rectangle is $(2n - 3m)$ and the breadth $(n - m)$. (2)
Calculate the area of the rectangle in terms of m and n .