

NATIONAL CERTIFICATE

MATHEMATICS N4

(16030164)

20 November 2024 (X-Paper)

09:00–12:00

Calculators may be used.

This question paper consists of 5 pages and a 1-page formula sheet.

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QUESTION 1

- 1.1 1.1.1 Sketch the graph of  $\frac{x^2}{20} + \frac{y^2}{32} = \frac{1}{50}$ . (3)
- 1.1.2 What is the domain of the graph in QUESTION 1.1.1? (2)
- 1.1.3 Is the graph in QUESTION 1.1.1 symmetrical about both axes? (1)
- 1.1.4 Does the graph in QUESTION 1.1.1 represent a function or a relation? (1)
- 1.2 Sketch the graph of  $x = +\sqrt{27 + y^2}$ . (3)
- 1.3 Solve for  $x$  if:  
 $x^2 + 2x = -2$  (4)
- 1.4 Simplify the following and leave answer in  $a + jb$  form:

$(1 - j)^2 + (1 + j)^2$

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