

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  $\frac{x^2}{20} + \frac{y^2}{32} = \frac{1}{20}$ . (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  $a + bi$  form:  
$$\left( \sqrt{7} - i\sqrt{3} \right)^2$$

# N4 Mathematics Question Papers And Answers

**IM Harris**

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1874 the year in which Darwin completed his research on insectivorous plants and published second editions of *Descent of Man* and *Coral Reefs* The year also saw an acrimonious dispute between Darwin and St George Jackson Mivart as a result of an anonymous review the latter had written in which he criticised Darwin's son George

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