

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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Kovalevskaya apart from the intrinsic interest of Kovalevskaya herself was primarily based upon the fact that the writing on her in English had been done by people who were interested in sociological and psychological aspects of her life None of these writings discussed her mathematical work in much detail This omission seemed to me a serious one in biographical studies of a woman whose primary significance was her mathematical work In regard to both the content of nineteenth century mathematics and the nature of the history of mathematics I learned a great deal from writing this book The attempt to put Kovalevskaya's work in historical context involved reading dozens of significant papers by great mathematicians In many cases I fear the purport of these papers is better known to many of my readers than to me If I persevered despite misgivings my excuse is that this book is after all primarily about Kovalevskaya If specialists in Euler Cauchy etc 53

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