

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:

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

2011 March Mathematics N4 Question Paper

TD Snyder



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Randomization, Relaxation, and Complexity in Polynomial Equation Solving Leonid Gurvits, 2011 This volume corresponds to the Banff International Research Station Workshop on Randomization Relaxation and Complexity held from February 28 March 5 2010 It contains a sample of advanced algorithmic techniques underpinning the solution of systems of polynomial equations The papers are written by leading experts in algorithmic algebraic geometry and examine core topics

Backpacker, 2000-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

Knowledge Architectures Denise Bedford, 2020-12-30 Knowledge Architectures reviews traditional approaches to managing information and explains why they need to adapt to support 21st century information management and discovery Exploring the rapidly changing environment in which information is being managed and accessed the book considers how to use knowledge architectures the basic structures and designs that underlie all of the parts of an effective information system to best advantage Drawing on 40 years of work with a variety of organizations Bedford explains that failure to understand the structure behind any given system can be the difference between an effective solution and a significant and costly failure Demonstrating that the information user environment has shifted significantly in the past 20 years the book explains that end users now expect designs and behaviors that are much closer to the way they think work and act Acknowledging how important it is that those responsible for developing an information or knowledge management system understand knowledge structures the book goes beyond a traditional library science perspective and uses case studies to help translate the abstract and theoretical to the practical and concrete Explaining the structures in a simple and intuitive way and providing examples that clearly illustrate the challenges faced by a range of different organizations Knowledge Architectures is essential reading for those studying and working in library and information science data science systems development database design and search system architecture and engineering

Model Answers to Mathematics N4 Papers D. A. Mackenzie, 1997

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