

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:

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

# 2012 N4 Mathematics Question Paper

**G Thomas**



## **2012 N4 Mathematics Question Paper:**

### **CBSE Class 10 Maths Standard Chapterwise Previous Year Question Bank (PYQ) For 2026 Exam**

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*String-Math 2022* Ron Donagi, Adrian Langer, Piotr Sułkowski, Katrin Wendland, 2024-04-18 This is a proceedings volume from the String Math conference which took place at the University of Warsaw in 2022 This 12th String Math conference focused on several research areas actively developing these days They included generalized categorical symmetries in quantum field theory and their relation to topological phases of matter formal aspects of quantum field theory in particular twisted holography various developments in supersymmetric gauge theories BPS counting and Donaldson Thomas invariants Other topics discussed at this conference included new advances in Gromov Witten theory curve counting and Calabi Yau manifolds Another broad topic concerned algebraic aspects of conformal field theory vertex operator algebras and quantum groups Furthermore several other recent developments were presented during the conference such as understanding the role of operator algebras in the presence of gravity derivation of gauge string duality complexity of black holes or mathematical aspects of the amplituhedron This proceedings volume contains articles summarizing 14 conference lectures devoted to the above topics

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### **Open Problems in Algebraic Combinatorics**

Christine Berkesch, Benjamin Brubaker, Gregg Musiker, Pavlo Pylyavskyy, Victor Reiner, 2024-08-21 In their preface the editors describe algebraic combinatorics as the area of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a

vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics

**Research Anthology on Preparing School Administrators to Lead Quality Education Programs** Management Association, Information Resources, 2020-07-24 The delivery of quality education to students relies heavily on the actions of an institution's administrative staff Effective leadership strategies allow for the continued progress of modern educational initiatives It is crucial to investigate how effective administrators lead their organizations in challenging and difficult times and promote the accomplishments of their organization Research Anthology on Preparing School Administrators to Lead Quality Education Programs is a vital reference source that offers theoretical and pedagogical research concerning the management of educational systems on both the national and international scale It also explores academic administration as well as administrative effectiveness in achieving organizational goals Highlighting a range of topics such as strategic planning human resources and school culture this multi volume book is ideally designed for educators administrators principals superintendents board members researchers academicians policymakers and students

**Canadian Journal of Forest Research**, 2012 **XIX International Conference on Phenomena in Ionized Gases, Belgrade 10th-14th July 1989**, 1989 **Index to IEEE Publications** Institute of Electrical and Electronics Engineers, 1979 Issues for 1973 cover the entire IEEE technical literature

**Monthly Notices of the Royal Astronomical Society**, 2012 Portfolio of 8 charts accompanies v 83 Land Use Planning Abstracts, 1974 Government Reports Announcements, 1974-05 *Arts & Humanities Citation Index*, 1988 A multidisciplinary

index covering the journal literature of the arts and humanities It fully covers 1 144 of the world's leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals **Government Reports Announcements & Index**, 1974 **Guide to Microforms in Print**, 2009 **Model**

**Answers to Mathematics N4 Papers** D. A. Mackenzie, 1997 Yearbook of International Organizations, 2011 Beginning in 1983 84 published in 3 vols with expansion to 6 vols by 2007 2008 vol 1 Organization descriptions and cross references vol 2 Geographic volume international organization participation vol 3 Subject volume vol 4 Bibliography and resources vol 5 Statistics visualizations and patterns vol 6 Who's who in international organizations From year to year some slight variations in naming of the volumes **Mathematics**, 2022

## **2012 N4 Mathematics Question Paper** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**2012 N4 Mathematics Question Paper**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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