

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:

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

# 11 March Mathematics N4 Question Paper

**G Orfield**



## 11 March Mathematics N4 Question Paper:

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ALTERNATIVE PRESS INDEX,2002      **Power-Up** Matthew Lane,2017-05-23 A fun and lively look at the mathematical ideas concealed in video games Did you know that every time you pick up the controller to your PlayStation or Xbox you are entering a game world steeped in mathematics Power Up reveals the hidden mathematics in many of today s most popular video games and explains why mathematical learning doesn t just happen in the classroom or from books you re doing it without even realizing it when you play games on your cell phone In this lively and entertaining book Matthew Lane discusses how gamers are engaging with the traveling salesman problem when they play Assassin s Creed why it is mathematically impossible for Mario to jump through the Mushroom Kingdom in Super Mario Bros and how The Sims teaches us the mathematical costs of maintaining relationships He looks at mathematical pursuit problems in classic games like Missile Command and Ms Pac Man and how each time you play Tetris you re grappling with one of the most famous unsolved problems in all of mathematics and computer science Along the way Lane discusses why Family Feud and Pictionary make for ho hum video games how realism in video games or the lack of it influences learning what video games can teach us about the mathematics of voting the mathematics of designing video games and much more Power Up shows how the world of video games is an unexpectedly rich medium for learning about the beautiful mathematical ideas that touch all aspects of our lives including our virtual ones      [Current Index to Journals in Education, Semi-Annual Cumulation, July-December, 1976](#) ,1976-10      [Exceptional Child Education Resources](#) ,1993      **Technical Abstract Bulletin** ,1979  
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web oct 14 2022 the bible has no examples of a lottery but it does contain instances of gambling samson s wager in judges 14 12 and the soldiers gambling over jesus garments in mark 15 24 in neither case is gambling presented in a good light the bible also mentions the casting of lots for the purpose of decision making joshua 18 10

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web 1 is gambling a sin according to the bible the bible does not specifically label gambling as a sin however it does caution against the love of money which can be associated with gambling 2 what are the dangers of gambling gambling can lead to addiction financial ruin and the neglect of responsibilities