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.

QUESTION 1

1.1   1.1.1   Sketch the graph of $\dfrac{x^2}{20} + \dfrac{y^2}{32} = \dfrac{1}{50}$ (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:

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SB Merriam

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TeeJay SQA National 4 Applications of Mathematics Thomas Strang,2020-08-31 Help students to apply their mathematical skills in real life contexts as they learn and develop through TeeJay s fun and accessible approach to SQA National 4 Applications of Maths This book provides hundreds of practice questions with progression and consolidation the core TeeJay philosophy underpinning every exercise and chapter *Current Index to Journals in Education* ,1999-04

Targeting Maths Gloria Harris,Garda Turner,2004 Queensland Targeting Maths: Teaching guide Gloria Harris,Garda Turner,2004 **Mathematics** Mark Patmore,Brian Seager,2006 Written by examiners and experienced teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide

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whether the unknown population means of two groups are equal or not. Learn more by following along with our ... 1.3.5.3. Two-Sample *t*-Test for Equal Means Purpose: Test if two population means are equal, The two-sample t-test (Snedecor and Cochran, 1989) is used to determine if two population means are equal. 2 Sample t-Test (1 tailed) Suppose we have two samples of ceramic sherd thickness collected from an archaeological site, where the two samples are easily distinguishable by the use of. Two sample t-test: SAS instruction Note that the test is two-sided (sides=2), the significance level is 0.05, and the test is to compare the difference between two means (mu1 - mu2) against 0 (h0 ...