

A Level Math

9709/32

Paper 3

May June 2022

Full Solution

Cambridge International AS & A Level

CANDIDATE NAME

CANDIDATE NUMBER

CANDIDATE NUMBER

MATHEMATICS

Paper 3 Pure Mathematics 3

9709/32

May/June 2022

1 hour 45 minutes

You must answer on the question paper.

You will need: List of formulae (Ref 10)

INSTRUCTIONS

- Answer all questions.
- Use a pencil for your final answers. You may use an felt marker for any diagrams or graphs.
- Show your working. Awarded marks are indicated in the margin at the end of the paper.
- Show your answers to each question in the space provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- If additional space is needed, you should use the back page of the end of the booklet. The question number or numbers must be clearly shown.
- You should use a calculator which operates in degrees.
- You must show all necessary working clearly. No marks will be given for unexplained answers from a calculator.

10. Verify by calculation that the root lies between 1 and 2.

$$f(x) = \ln x - 3x + x^2$$

$$f(1) = \ln 1 - 3(1) + 1^2$$

$$= \ln 1 - 6 + 4 = -1.30 < 0$$

$$f(2) = \ln 2.8 - 3(2.8) + (2.8)^2 = 0.469 > 0$$

$$f(1) < 0 \text{ and } f(2) > 0$$

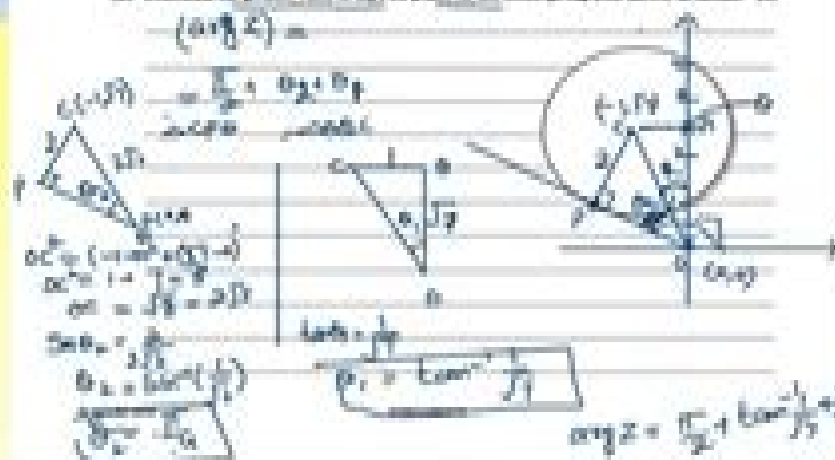


11. Determine the \sin^{-1} value of $\cos z$ for angles z in the first quadrant, giving your answer in radians. (10)

$$\cos z = \frac{1}{2}$$

$$\cos z = \frac{1}{2} \Rightarrow \cos z = \frac{1}{2}$$

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Maths 9709 November 2009 Paper 3

**Hugh Neill, Douglas Quadling, Julian
Gilbey**



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Maths 9709 November 2009 Paper 3 Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Maths 9709 November 2009 Paper 3**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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