

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 answer. You may use an felt marker for any diagrams or graphs.
- Show your working. Number questions and sub-questions in the margin at the end of the page.
- Show your answer 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 sub-question must be clearly shown.
- You should use a calculator which accepts algebraic expressions.
- 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.

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

$$f(1) = \ln 1 - 3(1) + 1^2 = -2 < 0$$

$$f(2) = \ln 2 - 3(2) + 2^2 = -1.30 < 0$$

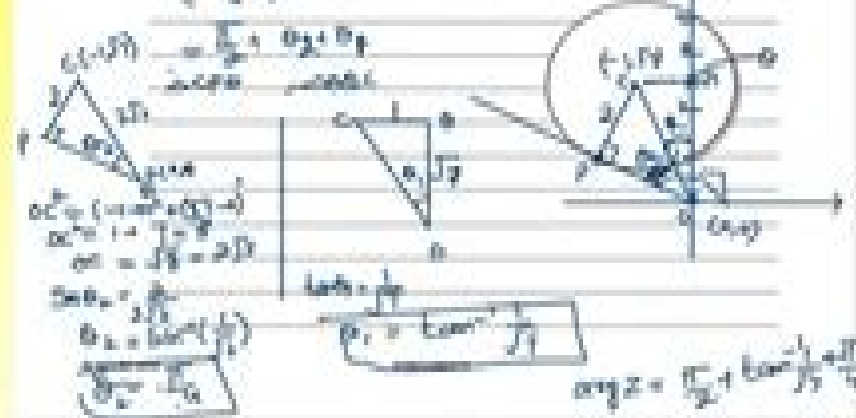
$$f(2.8) = \ln 2.8 - 3(2.8) + (2.8)^2 = 0.469 > 0$$

$$f(2) < 0 \text{ and } f(2.8) > 0$$



11. Determine the $\arg z$ for the complex number $z = 1 + 2i$.

$$z = 1 + 2i$$



Maths 9709 June 2011 Paper 3

Yong Yau



Maths 9709 June 2011 Paper 3:

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