

A Level Math

9709/32

Paper 3

May June 2022

Full Solution

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 complies with the syllabus.
- 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.

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

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

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

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

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

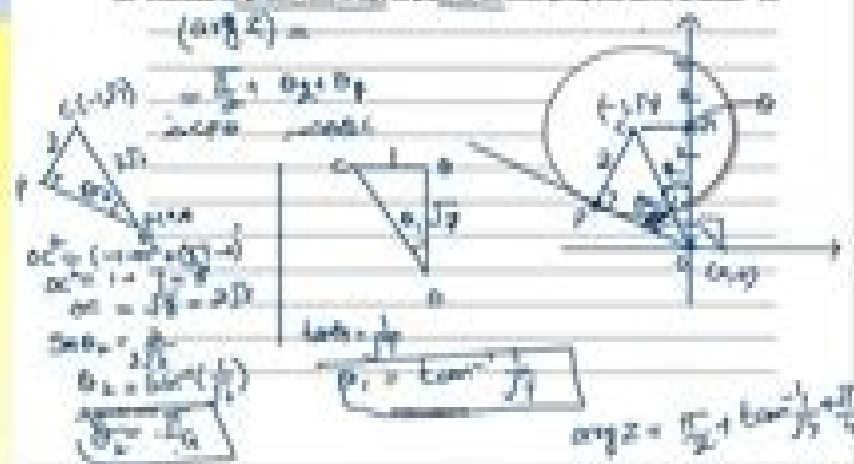


11. Determine the $\arg z$ for the complex number z given, and express in radians.

$$(z + 8i)^2 =$$

$$= \frac{1}{2} + 0.2i + 0.1$$

$$= 0.6 + 0.2i$$



Maths 9709 June 2008 Paper 6

R Bogdan



Maths 9709 June 2008 Paper 6:

Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Maths 9709 June 2008 Paper 6**

In some sort of inundated with displays and the cacophony of immediate conversation, the profound energy and mental resonance of verbal artistry often fade into obscurity, eclipsed by the continuous barrage of noise and distractions. However, set within the musical pages of **Maths 9709 June 2008 Paper 6**, a interesting perform of fictional elegance that pulses with organic thoughts, lies an unique trip waiting to be embarked upon. Penned by a virtuoso wordsmith, that exciting opus instructions viewers on an emotional odyssey, delicately exposing the latent potential and profound influence embedded within the complex web of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is central subjects, dissect their fascinating publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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