

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 answer. 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 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 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.

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

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

$$= \ln 1 - 6 + 1 = -5 < 0$$

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

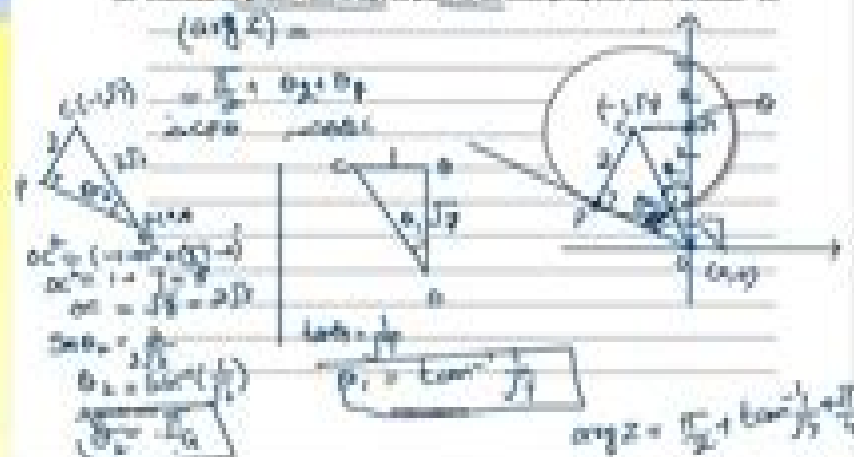
$$= \ln 2 - 6 + 4 = -1.30 < 0$$

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

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



11. Determine the $\arg z$ for the complex number z given that $z = \frac{1}{2} + \frac{1}{2}i$.



Maths 9709 June 2005 Paper 6

Ying Liu

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Maths 9709 June 2005 Paper 6:

The Top Books of the Year Maths 9709 June 2005 Paper 6 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Maths 9709 June 2005 Paper 6 : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Maths 9709 June 2005 Paper 6 : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Maths 9709 June 2005 Paper 6 : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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