

1. [Maximum mark: 5]

Let $f(x) = \ln x - 5x$, for $x > 0$.

(a) Find $f'(x)$.

[2]

(b) Find $f''(x)$.

[1]

(c) Solve $f'(x) = f''(x)$.

[2]

(a) $f'(x) = \frac{1}{x} - 5$ ✘

(b) $f''(x) = x^{-1} - 5$

$f''(x) = -x^{-2} = -\frac{1}{x^2}$ ✘

(c) $\frac{1}{x} - 5 = -\frac{1}{x^2}$

$x - 5x^2 = -1 \therefore 5x^2 - x - 1 = 0$

$x = \frac{1 \pm \sqrt{20+1}}{10}$

$= \frac{1 + \sqrt{21}}{10} = 0.558$ ✘

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Proof Technology in Mathematics Research and Teaching Gila Hanna,David A. Reid,Michael de Villiers,2019-10-02

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Table of Contents Ib Maths May Paper 2markscheme

1. Understanding the eBook Ib Maths May Paper 2markscheme
 - The Rise of Digital Reading Ib Maths May Paper 2markscheme
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Maths May Paper 2markscheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ib Maths May Paper 2markscheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Maths May Paper 2markscheme
 - Personalized Recommendations

- Ib Maths May Paper 2markscheme User Reviews and Ratings
- Ib Maths May Paper 2markscheme and Bestseller Lists
- 5. Accessing Ib Maths May Paper 2markscheme Free and Paid eBooks
 - Ib Maths May Paper 2markscheme Public Domain eBooks
 - Ib Maths May Paper 2markscheme eBook Subscription Services
 - Ib Maths May Paper 2markscheme Budget-Friendly Options
- 6. Navigating Ib Maths May Paper 2markscheme eBook Formats
 - ePub, PDF, MOBI, and More
 - Ib Maths May Paper 2markscheme Compatibility with Devices
 - Ib Maths May Paper 2markscheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Maths May Paper 2markscheme
 - Highlighting and Note-Taking Ib Maths May Paper 2markscheme
 - Interactive Elements Ib Maths May Paper 2markscheme
- 8. Staying Engaged with Ib Maths May Paper 2markscheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ib Maths May Paper 2markscheme
- 9. Balancing eBooks and Physical Books Ib Maths May Paper 2markscheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Maths May Paper 2markscheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Ib Maths May Paper 2markscheme
 - Setting Reading Goals Ib Maths May Paper 2markscheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ib Maths May Paper 2markscheme
 - Fact-Checking eBook Content of Ib Maths May Paper 2markscheme

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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