

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]

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$$(a) \quad f'(x) = \frac{1}{x} - 5$$

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$$(b) \quad f''(x) = x^{-2} - 5$$

$$f''(x) = -x^{-2} = -\frac{1}{x^2}$$

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

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

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

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

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Table of Contents Ib Specimen Papers 2sl Maths

1. Understanding the eBook Ib Specimen Papers 2sl Maths
 - The Rise of Digital Reading Ib Specimen Papers 2sl Maths
 - Advantages of eBooks Over Traditional Books
2. Identifying Ib Specimen Papers 2sl Maths
 - 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 Specimen Papers 2sl Maths
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ib Specimen Papers 2sl Maths
 - Personalized Recommendations
 - Ib Specimen Papers 2sl Maths User Reviews and Ratings
 - Ib Specimen Papers 2sl Maths and Bestseller Lists
5. Accessing Ib Specimen Papers 2sl Maths Free and Paid eBooks
 - Ib Specimen Papers 2sl Maths Public Domain eBooks
 - Ib Specimen Papers 2sl Maths eBook Subscription Services
 - Ib Specimen Papers 2sl Maths Budget-Friendly Options

6. Navigating Ib Specimen Papers 2sl Maths eBook Formats
 - ePub, PDF, MOBI, and More
 - Ib Specimen Papers 2sl Maths Compatibility with Devices
 - Ib Specimen Papers 2sl Maths Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ib Specimen Papers 2sl Maths
 - Highlighting and Note-Taking Ib Specimen Papers 2sl Maths
 - Interactive Elements Ib Specimen Papers 2sl Maths
8. Staying Engaged with Ib Specimen Papers 2sl Maths
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ib Specimen Papers 2sl Maths
9. Balancing eBooks and Physical Books Ib Specimen Papers 2sl Maths
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ib Specimen Papers 2sl Maths
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ib Specimen Papers 2sl Maths
 - Setting Reading Goals Ib Specimen Papers 2sl Maths
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ib Specimen Papers 2sl Maths
 - Fact-Checking eBook Content of Ib Specimen Papers 2sl Maths
 - 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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