

A Level Maths - Paper 1 - 2023 Mark Scheme

| No. ph | Question | Answer | Marks |
|-----------|--|--|--------------------------------------|
| 1 | $\int \frac{\sqrt{x(2x-5)}}{3} dx$ | $\frac{4}{15}x^{\frac{5}{2}} - \frac{10}{9}x^{\frac{3}{2}} + C$ | 4 |
| 2 | $f(x) = 4x^3 + 5x^2 - 10x + 4a$ a) Given that $(x - a)$ is a factor of $f(x)$ Find the value of a b) Solve $f(x) = 3$ | $a = \frac{3}{4}$ $x = 0, \frac{-5 \pm \sqrt{185}}{8}$ | 3 |
| 3 | $a = \log_2 x$ $b = \log_2(x + 8)$ Write the following in terms of a and b : a) $\log_2 \sqrt{x}$ b) $\log_2(x^2 + 8x)$ c) $\log_2(8 + \frac{64}{x})$ | a) $\frac{1}{2}a$ b) $a + b$ c) $3 + b - a$ | a) 1 b) 2 c) 3 Total: 6 |
| 4) | a) Prove the distance of OA is $\sqrt{38}$ b) Find min value of a given $ OB > OA $ | b) $a > 3\sqrt{2}$, but a is an integer so $a = 5$ | a) 1 b) 2 Total: 3 |
| 5 | a) Find α b) $f(x) \equiv -1/2 \cos x = 0$ | $\alpha = -0.24...$ $y = \frac{1}{2}x + 3$ | a) 3 b) 2 Total: 5 |
| 6 | a) i) Find the centre of the circle ii) Find the radius b) range of values values for k | a) i) $C(-3k, k)$ ii) $r = \sqrt{10k^2 - 7}$ b) $k < 7 - \sqrt{85}$ or $k > 7 + \sqrt{85}$ | a) 3 b) 6 Total: 9 |

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Liyong Dong



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Table of Contents Nov 20zimsec A Level Mathematics Marking Shceme

1. Understanding the eBook Nov 20zimsec A Level Mathematics Marking Shceme
 - The Rise of Digital Reading Nov 20zimsec A Level Mathematics Marking Shceme
 - Advantages of eBooks Over Traditional Books
2. Identifying Nov 20zimsec A Level Mathematics Marking Shceme
 - 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 Nov 20zimsec A Level Mathematics Marking Shceme
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nov 20zimsec A Level Mathematics Marking Shceme
 - Personalized Recommendations
 - Nov 20zimsec A Level Mathematics Marking Shceme User Reviews and Ratings

- Nov 20zimsec A Level Mathematics Marking Shceme and Bestseller Lists
- 5. Accessing Nov 20zimsec A Level Mathematics Marking Shceme Free and Paid eBooks
 - Nov 20zimsec A Level Mathematics Marking Shceme Public Domain eBooks
 - Nov 20zimsec A Level Mathematics Marking Shceme eBook Subscription Services
 - Nov 20zimsec A Level Mathematics Marking Shceme Budget-Friendly Options
- 6. Navigating Nov 20zimsec A Level Mathematics Marking Shceme eBook Formats
 - ePub, PDF, MOBI, and More
 - Nov 20zimsec A Level Mathematics Marking Shceme Compatibility with Devices
 - Nov 20zimsec A Level Mathematics Marking Shceme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nov 20zimsec A Level Mathematics Marking Shceme
 - Highlighting and Note-Taking Nov 20zimsec A Level Mathematics Marking Shceme
 - Interactive Elements Nov 20zimsec A Level Mathematics Marking Shceme
- 8. Staying Engaged with Nov 20zimsec A Level Mathematics Marking Shceme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nov 20zimsec A Level Mathematics Marking Shceme
- 9. Balancing eBooks and Physical Books Nov 20zimsec A Level Mathematics Marking Shceme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nov 20zimsec A Level Mathematics Marking Shceme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nov 20zimsec A Level Mathematics Marking Shceme
 - Setting Reading Goals Nov 20zimsec A Level Mathematics Marking Shceme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nov 20zimsec A Level Mathematics Marking Shceme
 - Fact-Checking eBook Content of Nov 20zimsec A Level Mathematics Marking Shceme
 - 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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