

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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Table of Contents June 2013 Maths Gcse Edexcel Mark Scheme

1. Understanding the eBook June 2013 Maths Gcse Edexcel Mark Scheme
 - The Rise of Digital Reading June 2013 Maths Gcse Edexcel Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Maths Gcse Edexcel Mark Scheme
 - 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 June 2013 Maths Gcse Edexcel Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Maths Gcse Edexcel Mark Scheme
 - Personalized Recommendations
 - June 2013 Maths Gcse Edexcel Mark Scheme User Reviews and Ratings
 - June 2013 Maths Gcse Edexcel Mark Scheme and Bestseller Lists
5. Accessing June 2013 Maths Gcse Edexcel Mark Scheme Free and Paid eBooks
 - June 2013 Maths Gcse Edexcel Mark Scheme Public Domain eBooks
 - June 2013 Maths Gcse Edexcel Mark Scheme eBook Subscription Services

- June 2013 Maths Gcse Edexcel Mark Scheme Budget-Friendly Options
- 6. Navigating June 2013 Maths Gcse Edexcel Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2013 Maths Gcse Edexcel Mark Scheme Compatibility with Devices
 - June 2013 Maths Gcse Edexcel Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 Maths Gcse Edexcel Mark Scheme
 - Highlighting and Note-Taking June 2013 Maths Gcse Edexcel Mark Scheme
 - Interactive Elements June 2013 Maths Gcse Edexcel Mark Scheme
- 8. Staying Engaged with June 2013 Maths Gcse Edexcel Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2013 Maths Gcse Edexcel Mark Scheme
- 9. Balancing eBooks and Physical Books June 2013 Maths Gcse Edexcel Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 Maths Gcse Edexcel Mark Scheme
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine June 2013 Maths Gcse Edexcel Mark Scheme
 - Setting Reading Goals June 2013 Maths Gcse Edexcel Mark Scheme
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of June 2013 Maths Gcse Edexcel Mark Scheme
 - Fact-Checking eBook Content of June 2013 Maths Gcse Edexcel Mark Scheme
 - 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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