

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 $\alpha$ 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 C4 Edexcel Mark Scheme**

1. Understanding the eBook June 2013 Maths C4 Edexcel Mark Scheme
  - The Rise of Digital Reading June 2013 Maths C4 Edexcel Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Maths C4 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 C4 Edexcel Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Maths C4 Edexcel Mark Scheme
  - Personalized Recommendations
  - June 2013 Maths C4 Edexcel Mark Scheme User Reviews and Ratings
  - June 2013 Maths C4 Edexcel Mark Scheme and Bestseller Lists

5. Accessing June 2013 Maths C4 Edexcel Mark Scheme Free and Paid eBooks
  - June 2013 Maths C4 Edexcel Mark Scheme Public Domain eBooks
  - June 2013 Maths C4 Edexcel Mark Scheme eBook Subscription Services
  - June 2013 Maths C4 Edexcel Mark Scheme Budget-Friendly Options
6. Navigating June 2013 Maths C4 Edexcel Mark Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - June 2013 Maths C4 Edexcel Mark Scheme Compatibility with Devices
  - June 2013 Maths C4 Edexcel Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of June 2013 Maths C4 Edexcel Mark Scheme
  - Highlighting and Note-Taking June 2013 Maths C4 Edexcel Mark Scheme
  - Interactive Elements June 2013 Maths C4 Edexcel Mark Scheme
8. Staying Engaged with June 2013 Maths C4 Edexcel Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers June 2013 Maths C4 Edexcel Mark Scheme
9. Balancing eBooks and Physical Books June 2013 Maths C4 Edexcel Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection June 2013 Maths C4 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 C4 Edexcel Mark Scheme
  - Setting Reading Goals June 2013 Maths C4 Edexcel Mark Scheme
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of June 2013 Maths C4 Edexcel Mark Scheme
  - Fact-Checking eBook Content of June 2013 Maths C4 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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