

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

# June 2013 Maths C4 Edexcel Mark Scheme

**S Nieto**



**June 2013 Maths C4 Edexcel Mark Scheme:**

This book delves into June 2013 Maths C4 Edexcel Mark Scheme. June 2013 Maths C4 Edexcel Mark Scheme is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into June 2013 Maths C4 Edexcel Mark Scheme, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to June 2013 Maths C4 Edexcel Mark Scheme
    - Chapter 2: Essential Elements of June 2013 Maths C4 Edexcel Mark Scheme
    - Chapter 3: June 2013 Maths C4 Edexcel Mark Scheme in Everyday Life
    - Chapter 4: June 2013 Maths C4 Edexcel Mark Scheme in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of June 2013 Maths C4 Edexcel Mark Scheme. This chapter will explore what June 2013 Maths C4 Edexcel Mark Scheme is, why June 2013 Maths C4 Edexcel Mark Scheme is vital, and how to effectively learn about June 2013 Maths C4 Edexcel Mark Scheme.
  3. In chapter 2, the author will delve into the foundational concepts of June 2013 Maths C4 Edexcel Mark Scheme. The second chapter will elucidate the essential principles that need to be understood to grasp June 2013 Maths C4 Edexcel Mark Scheme in its entirety.
  4. In chapter 3, this book will examine the practical applications of June 2013 Maths C4 Edexcel Mark Scheme in daily life. This chapter will showcase real-world examples of how June 2013 Maths C4 Edexcel Mark Scheme can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of June 2013 Maths C4 Edexcel Mark Scheme in specific contexts. This chapter will explore how June 2013 Maths C4 Edexcel Mark Scheme is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about June 2013 Maths C4 Edexcel Mark Scheme. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of June 2013 Maths C4 Edexcel Mark Scheme.

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