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 √3B 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) ½ -1/2cosx = 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) $\partial C(-3k, k)$ ii) $r = \sqrt{10k^2 - 7}$ b) $k < 7 - \sqrt{85}$ or $k > 7 + \sqrt{85}$	a) 3 b) 6 Total: 9

November 2009 Paper 4h Mark Scheme Edexcel

A Gutmann

November 2009 Paper 4h Mark Scheme Edexcel:

This book delves into November 2009 Paper 4h Mark Scheme Edexcel. November 2009 Paper 4h Mark Scheme Edexcel is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into November 2009 Paper 4h Mark Scheme Edexcel, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to November 2009 Paper 4h Mark Scheme Edexcel
 - Chapter 2: Essential Elements of November 2009 Paper 4h Mark Scheme Edexcel
 - Chapter 3: November 2009 Paper 4h Mark Scheme Edexcel in Everyday Life
 - Chapter 4: November 2009 Paper 4h Mark Scheme Edexcel in Specific Contexts
 - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of November 2009 Paper 4h Mark Scheme Edexcel. This chapter will explore what November 2009 Paper 4h Mark Scheme Edexcel is, why November 2009 Paper 4h Mark Scheme Edexcel is vital, and how to effectively learn about November 2009 Paper 4h Mark Scheme Edexcel.
- 3. In chapter 2, this book will delve into the foundational concepts of November 2009 Paper 4h Mark Scheme Edexcel. This chapter will elucidate the essential principles that need to be understood to grasp November 2009 Paper 4h Mark Scheme Edexcel in its entirety.
- 4. In chapter 3, the author will examine the practical applications of November 2009 Paper 4h Mark Scheme Edexcel in daily life. The third chapter will showcase real-world examples of how November 2009 Paper 4h Mark Scheme Edexcel can be effectively utilized in everyday scenarios.
- 5. In chapter 4, this book will scrutinize the relevance of November 2009 Paper 4h Mark Scheme Edexcel in specific contexts. This chapter will explore how November 2009 Paper 4h Mark Scheme Edexcel is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, this book will draw a conclusion about November 2009 Paper 4h Mark Scheme Edexcel. The final chapter will summarize the key points that have been discussed throughout the book.
 - This 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 November 2009 Paper 4h Mark Scheme Edexcel.

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