

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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Christian Drosten



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(Free version) Abacus & Mental Arithmetic Course Book Mathewmatician, All four arithmetic examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to Children with strong self learning ability Parents who train their children on their own Kindergarten or Primary school teacher Students majoring in early childhood education or elementary education in universities and colleges Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class *The Times Index* ,2008 Indexes the Times and its supplements [IGCSE Maths Edexcel Revision Guide](#) Richard Parsons,2010-08-26 International GCSE Maths Edexcel Revision Guide **Igcse Maths Edexcel Workbook - Higher** ,2010

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Table of Contents Igcse Maths Edexcel 20mark Schemes

1. Understanding the eBook Igcse Maths Edexcel 20mark Schemes
 - The Rise of Digital Reading Igcse Maths Edexcel 20mark Schemes
 - Advantages of eBooks Over Traditional Books
2. Identifying Igcse Maths Edexcel 20mark Schemes
 - 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 Igcse Maths Edexcel 20mark Schemes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Igcse Maths Edexcel 20mark Schemes
 - Personalized Recommendations
 - Igcse Maths Edexcel 20mark Schemes User Reviews and Ratings
 - Igcse Maths Edexcel 20mark Schemes and Bestseller Lists
5. Accessing Igcse Maths Edexcel 20mark Schemes Free and Paid eBooks
 - Igcse Maths Edexcel 20mark Schemes Public Domain eBooks
 - Igcse Maths Edexcel 20mark Schemes eBook Subscription Services
 - Igcse Maths Edexcel 20mark Schemes Budget-Friendly Options

6. Navigating Igcse Maths Edexcel 20mark Schemes eBook Formats
 - ePub, PDF, MOBI, and More
 - Igcse Maths Edexcel 20mark Schemes Compatibility with Devices
 - Igcse Maths Edexcel 20mark Schemes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Igcse Maths Edexcel 20mark Schemes
 - Highlighting and Note-Taking Igcse Maths Edexcel 20mark Schemes
 - Interactive Elements Igcse Maths Edexcel 20mark Schemes
8. Staying Engaged with Igcse Maths Edexcel 20mark Schemes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Igcse Maths Edexcel 20mark Schemes
9. Balancing eBooks and Physical Books Igcse Maths Edexcel 20mark Schemes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Igcse Maths Edexcel 20mark Schemes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Igcse Maths Edexcel 20mark Schemes
 - Setting Reading Goals Igcse Maths Edexcel 20mark Schemes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Igcse Maths Edexcel 20mark Schemes
 - Fact-Checking eBook Content of Igcse Maths Edexcel 20mark Schemes
 - 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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