# A Level Maths - Paper 1 - 2023 Mark Scheme

No. ph	Question	Answer	Marks
7	$\int \frac{\sqrt{x(2x-5)}}{3} dx$	$\frac{4}{15}x^{\frac{5}{2}} - \frac{10}{9}x^{\frac{3}{2}} + C$	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)	<ul> <li>a) Prove the distance of OA is √3B</li> <li>b) Find min value of a given  OB  &gt;  OA  </li> </ul>	b) $a > 3\sqrt{2}$ , but a is an integer so $a = 5$	a) 1 b) 2 Total: 3
5	<ul> <li>a) Find α</li> <li>b) f'(x) ½ -1/2cosx = 0</li> </ul>	$\alpha = -0.24$ $y = \frac{1}{2}x + 3$	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

# **May 13th Maths Cmark Scheme**

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,1922 Practise and Prepare for Mathematics Mark Patmore, Brian Seager, 1997-01-31 To keep up with changes in National Curriculum testing new editions of Key Stage 3 National Tests in English Maths and Science are available in May 2000 in preparation for the tests in May 2001 MATHEMATICAL RECREATIONS AND ESSAYS W.W. ROUSE BALL,2008 The book is divided into two parts The rst part consists of seven chapters in which are included various problems and amusements of the kind usually called mathematical recreations The questions discussed in the rst of these chapters are connected with arithmetic those in the second with geometry and those in the third relate to mechanics The fourth chapter contains an account of some miscellaneous problems which involve both num ber and situation the fth chapter contains a concise account of magic squares and the sixth and seventh chapters deal with some unicursal problems. The second part consists of ve chapters which are mostly historical They deal respectively with three classical problems in geometry namely the duplication of the cube the trisection of an angle and the quadrature of the circle astrology the hypotheses as to the nature of space and mass and a means of measuring time **Super 10 CBSE Class 12 Mathematics 2023 Exam Sample** Papers with 2021-22 Previous Year Solved Papers, CBSE Sample Paper & 2020 Topper Answer Sheet | 10 Blueprints for 10 Papers | Solutions with marking scheme | Disha Experts, 2022-10-07 Super 10 CBSE Board Class 12 Mathematics 2023 Exam Sample Papers contains 10 Sample Papers designed on the Latest pattern issued by CBSE in Sep 2022 as per the Full Year syllabus prescribed by CBSE Board Each of the Sample Papers is designed on the Latest Question Paper Design 2022 23 The book also provides the CBSE Sample Paper 2022 23 with Solutions The book also provides 2021 22 Term I II Solved papers Another useful inclusion is the Topper Answer Sheet of CBSE 2020 as provided by CBSE The book also provides the complete Latest Syllabus of 2021 2022 Detailed Explanations to all the Questions with Marking Scheme has Oswaal NTA CUET (UG) Question Banks | Chapterwise & Topicwise | English, Physics, Chemistry, Math & been provided General Test | Set of 5 Books | Entrance Exam Preparation Books 2024 Oswaal Editorial Board, 2024-03-08 Description of the Product 100% Exam Ready With 2023 CUET UG Exam Papers Fully Solved with Explanations Concept Clarity With Revision Notes Chapter Analysis with updated pattern Extensive Practice With 800 Practice Questions of Previous Years 2021 2023 Fill Learning Gaps with Smart Mind Maps Concept Videos Valuable Exam Insights With Tips Tricks to ace CUET UG in 1st Taking the IB Diploma Programme Forward Jeff Thompson, Mary Hayden, 2011-10-24 Expert writers share Attempt their thoughts and opinions on the future of the International Baccalaureate Diploma Programme The editors and contributors all experts in their field identify issues arising from current practice and indicate how those issues need to be addressed as part of a policy for future growth Oswaal One for All Class 12 English, Physics, Chemistry & Mathematics (Set of 4 books) (For CBSE Board Exam 2024) Oswaal Editorial Board, 2023-07-31 Description of the product Strictly as per the latest CBSE Syllabus dated March 31 2023 Cir No Acad 39 2023 Acad45 2023 100 % Updated for 2023 24 with Latest Rationalised NCERT Textbooks Concept Clarity with Concept wise Revision Notes Mind Maps Mnemonics 100% Exam

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