

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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Yan Bai



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Provable and Practical Security Khoa Nguyen, Wenling Wu, Kwok Yan Lam, Huaxiong Wang, 2020-11-20 This book constitutes the refereed proceedings of the 14th International Conference on Provable Security ProvSec 2020 held in Singapore in November 2020 The 20 full papers presented were carefully reviewed and selected from 59 submissions The papers focus on provable security as an essential tool for analyzing security of modern cryptographic primitives They are divided in the following topical sections signature schemes encryption schemes and NIZKS secure machine learning and multiparty computation secret sharing schemes and security analyses The conference was held virtually due to the COVID 19 pandemic

Scientific and Technical Aerospace Reports, 1993

Introduction to Scientific Computing and Data Analysis Mark H. Holmes, 2023-07-11 This textbook provides an introduction to numerical computing and its applications in science and engineering The topics covered include those usually found in an introductory course as well as those that arise in data analysis This includes optimization and regression based methods using a singular value decomposition The emphasis is on problem solving and there are numerous exercises throughout the text concerning applications in engineering and science The essential role of the mathematical theory underlying the methods is also considered both for understanding how the method works as well as how the error in the computation depends on the method being used The codes used for most of the computational examples in the text are available on GitHub This new edition includes material necessary for an upper division course in computational linear algebra

Index to IEEE Publications Institute of Electrical and Electronics Engineers, 1977 Issues for 1973 cover the entire IEEE technical literature

Who's Who in America Marquis Who's Who, Inc, 2002

Forthcoming Books Rose Army, 2001-06

Ordered Linear Spaces Graham Jameson, 2014-09-01

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