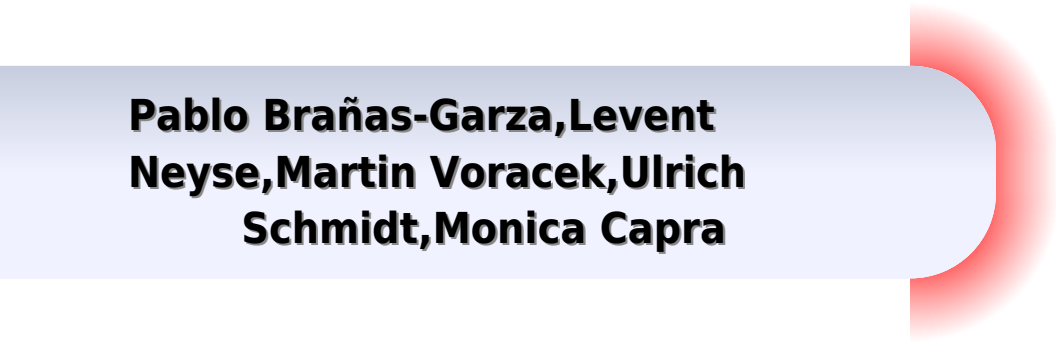


A Level Maths - Paper 1 - 2023 Mark Scheme

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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**Pablo Brañas-Garza, Levent
Neyse, Martin Voracek, Ulrich
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Validating Technological Innovation David Coniam, Peter Falvey, 2016-04-02 This book discusses Hong Kong's use of onscreen marking OSM in public examinations. Given that Hong Kong leads the way in OSM innovation, this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong. The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders.

The Fascination of Probability, Statistics and their Applications Mark Podolskij, Robert Stelzer, Steen Thorbjørnsen, Almut E. D. Veraart, 2015-12-26 Collecting together twenty three self contained articles, this volume presents the current research of a number of renowned scientists in both probability theory and statistics as well as their various applications in economics, finance, the physics of wind blown sand, queueing systems, risk assessment, turbulence and other areas. The contributions are dedicated to and inspired by the research of Ole E. Barndorff-Nielsen who since the early 1960s has been and continues to be a very active and influential researcher working on a wide range of important problems. The topics covered include but are not limited to econometrics, exponential families, Lévy processes and infinitely divisible distributions, limit theory, mathematical finance, random matrices, risk assessment, statistical inference for stochastic processes, stochastic analysis and optimal control, time series and turbulence. The book will be of interest to researchers and graduate students in probability, statistics and their applications.

Artificial Life and Computational Intelligence Stephan Chalup, Alan D. Blair, Marcus Randall, 2015-01-10 This book constitutes the refereed proceedings of the First Australasian Conference on Artificial Life and Computational Intelligence ACALCI 2015 held in Newcastle NSW Australia in February 2015. The 34 revised full papers presented were carefully reviewed and selected from 63 submissions. The papers are organized in the following topical sections: philosophy and theory, game environments and methods, learning, memory and optimization and applications and implementations.

Hormones and Economic Behavior Pablo Brañas-Garza, Levent Neyse, Martin Voracek, Ulrich Schmidt, Monica Capra, 2019-01-29 Behavioral correlates of hormones emphasized by psychologists have captured the attention of economists in the past years. Behavioral economists in particular have investigated the possible roles of hormones on economic decision making and behavior as well as social preferences and cognitive abilities. Testosterone, oxytocin, dopamine, serotonin and stress hormones are the foremost studied ones in economic contexts. Yet the results are mixed and the relationship between hormones and economic behavior is under investigated to this date. Hormone levels are measurable and manipulatable e.g. activate/deactivate/block. The fact that the behavioral economics also employs experimental methodology makes it possible to observe both correlational and causal relationships between hormones and economic behavior. Since numerous environmental, social and biological factors interact with hormone fluctuations, capturing the true impacts of hormones on decisions and behavior is challenging. Manipulating hormone levels in

the body is a method that is used to tackle this issue Such studies compare observed behaviors of hormones or placebo administrated participants to determine causal relationships This Research Topic welcomes the studies on the direct or indirect correlates of hormones on economic behavior and decision making to create new insights on the economic consequences of endocrine activity **Hydrometallurgy** Suresh Bhargava,Mark Pownceby,Rahul Ram,2018-07-02 This book is a printed edition of the Special Issue Hydrometallurgy that was published in Metals *New Pencil Points* Eugene Clute,Russell Fenimore Whitehead,Kenneth Reid,Elizabeth L. Cleaver,1935 **The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray,1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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