

Chp 5 IB SL Maths

1a. [4 marks]

Consider the function $f(x) = x^2 - 4x + 1$.

Sketch the graph of f , for $-1 \leq x \leq 5$.

1b. [1 mark]

This function can also be written as $f(x) = (x - p)^2 - 3$.

Write down the value of p .

1c. [4 marks]

The graph of g is obtained by reflecting the graph of f in the x -axis, followed by a translation of $\begin{pmatrix} 0 \\ 6 \end{pmatrix}$.
Show that $g(x) = -x^2 + 4x + 5$.

1d. [3 marks]

The graph of g is obtained by reflecting the graph of f in the x -axis, followed by a translation of $\begin{pmatrix} 0 \\ 6 \end{pmatrix}$.
The graphs of f and g intersect at two points.
Write down the x -coordinates of these two points.

1e. [3 marks]

The graph of g is obtained by reflecting the graph of f in the x -axis, followed by a translation of $\begin{pmatrix} 0 \\ 6 \end{pmatrix}$.
Let R be the region enclosed by the graphs of f and g .
Find the area of R .

2a. [2 marks]

The diagram below shows the graph of a function $f(x)$, for $-2 \leq x \leq 3$.

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AW Rasmussen



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Independent Schools Yearbook 2012-2013 none, 2013-06-20 The highly respected book of reference of sought after Independent Schools in membership of the Independent Schools Council s Associations HMC GSA The Society of Heads IAPS ISA and COBIS

IB World Schools Yearbook 2013 Jonathan Barnes, 2012 There are currently more than 3600 IB World Schools and this number is growing annually The IB World Schools Yearbook is the official guide to schools authorised to offer the International Baccalaureate Primary Years Middle Years Diploma and Programmes It tells you where the schools are and what they offer and provides up to date information about the IB programmes and the International Baccalaureate This is an ideal reference for schools administration parents and education ministries worldwide as it provides a comprehensive reference of IB World Schools for quick and easy access raises the profile of schools within the IB World School community and beyond reinforces a sense of belonging to the IB World School community

The Massachusetts General Hospital Guide to Learning Disabilities H. Kent Wilson, Ellen B. Braaten, 2018-12-13 This book connects experts in the field of child assessment to provide child psychiatrists with knowledge in evaluation and educational programming The book provides a review of the latest science behind common learning disabilities including etiology and guidelines for assessment diagnosis neurodevelopmental disorders like learning disabilities ADHD psychiatric disorders in childhood such as mood and anxiety disorders and impact learning and development protocols The Massachusetts General Hospital Guide to Learning Disabilities evaluates the interventions that are effective in addressing these learning challenges in the context of multiple factors in a way that no other current text does Special topics such as special education law and managing the needs of transitional age youth allow psychiatrists to support their patients and their families as they navigate the system By offering a better understanding the learning needs of their patients this texts gives readers the tools to consult with families and educators regarding how to address the learning needs of their patients at school and in other settings The Massachusetts General Hospital Guide to Learning Disabilities is a vital tool for child psychiatrists students assessment professionals and other professionals studying or working with children suffering from learning disabilities

Fuzzy Differential Equations and Applications for Engineers and Scientists S. Chakraverty, Smita Tapaswini, Diptiranjana Behera, 2016-11-25 Differential equations play a vital role in the modeling of physical and engineering problems such as those in solid and fluid mechanics viscoelasticity biology physics and many other areas In general the parameters variables and initial conditions within a model are considered as being defined exactly In reality there may be only vague imprecise or incomplete information about the variables and parameters available This can result from errors in measurement observation or experimental data application of different operating conditions or maintenance induced errors To overcome uncertainties or lack of precision one can use a fuzzy environment in parameters variables and initial conditions in place of exact fixed ones by turning general differential equations into Fuzzy Differential Equations FDEs In real applications it can be

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Backpacker, 2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker's Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

Psychological Science Catherine A. Sanderson, Karen R. Huffman, 2023-04-11 Psychological Science The Curious Mind by award winning authors and professors Catherine A Sanderson and Karen Huffman introduces 21st century digital native students to the fascinating field of psychology This new program emphasizes the importance of developing scientific literacy and an understanding of research and research methods The program uses an inviting why focused framework that taps into students natural curiosity incorporating active learning and real life application to engage students Psychological Science The Curious Mind embraces the guidelines released by the American Psychological Association APA's Introductory Psychology Initiative IPI in 2021 It provides an excellent framework for instructors who want to implement those guidelines in their Introductory Psychology courses and it provides students with the content and motivation to achieve the course's ultimate outcome an enduring foundational understanding of psychological science

Infants and Children Laura E. Berk, 2022-07-26 In the Ninth Edition of *Infants and Children: Prenatal Through Middle Childhood* renowned professor researcher and author Laura E Berk takes an integrated approach to presenting development in the physical cognitive emotional and social domains emphasizing the complex interchanges between heredity and environment providing exceptional multicultural and cross cultural focus and offering research based practical applications that students can relate to their personal and professional lives

Cardio-Renal Clinical Challenges David Goldsmith, Adrian Covic, Jonas Spaak, 2014-11-12 In modern medicine the aging population is prone to many simultaneous cardiovascular CV risk factors which often produce co incident pathology Nowhere is this more obvious than in the interaction between Chronic Kidney Disease CKD Diabetes and diverse CV diseases CVD This is a complex and challenging area as the presence of CKD diabetes promotes CVD while also complicating its treatment The emergence of CKD as a public health priority is one of the most challenging problems of modern medicine It is now solidly established that renal dysfunction portends a high risk for cardiovascular disease Cardiovascular diseases remains the main cause of death in western societies and the amplification of

the death risk conveyed by coexisting CKD even though still poorly understood appears considerable The bidirectional link that associates renal and cardiovascular diseases the high risk of the death signalled by their coexistence and the considerable epidemiological burden imposed by this link is at the basis of the emergence of a new discipline aiming at making the borders between nephrology and cardiovascular medicine even more permeable than before The term Cardio Renal Syndrome was coined around 5 years ago to try to formalize this link and act as a stimulus to interaction between clinical teams researchers and others to achieve better management and outcomes for all This book takes clinical presentations and clinical problems as its base and then discuss the evidence for best management of common clinical problems as well as the reasons for the complex interplay between the cardiac and renal systems Moreover it addresses the issue of organizing healthcare to maximize the opportunities for prevention and best healthcare economic returns building on cutting edge initiatives at the Karolinska Stockholm The book will be of immediate value and interest to all cardiologists and renal physicians

Antiplatelet and Anticoagulation Therapy In PCI, An Issue of Interventional Cardiology Clinics Dominick J. Angiolillo,Matthew J. Price,2016-11-26 This issue of Interventional Cardiology Clinics edited by Drs Dominick Angiolillo and Matthew Price will focus on Antiplatelet and Anticoagulation Therapy in PCI The topics covered in this volume will span across pretreatment with antiplatelet agents optimal duration of antiplatelet therapy after PCI Cangrelor and its role in percutaneous coronary intervention Ticagrelor and its effects beyond the P2Y12 receptor dyspnea and Reversibly binding P2Y12 antagonists PAR receptor inhibition post PCI switching P2Y12 receptor inhibiting therapies antiplatelet and antithrombotic therapy in patients with atrial fibrillation undergoing coronary stenting antithrombotic therapy to reduce ischemic events in ACS patients undergoing PCI and the current role of platelet function testing in PCI and CABG among other topics

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