

Subject - Math AA(Standard Level)

Topic - Functions

Year - May 2021 - Nov 2022

Paper -1

Questions

Question 1

[Maximum mark: 5]

The functions f and g are defined such that $f(x) = \frac{x+3}{4}$ and $g(x) = 8x+5$.

(a) Show that $(g \circ f)(x) = 2x + 11$. [2]

(b) Given that $(g \circ f)^{-1}(a) = 4$, find the value of a . [3]

Question 2

[Maximum mark: 14]

Let $f(x) = mx^2 - 2mx$, where $x \in \mathbb{R}$ and $m \in \mathbb{R}$. The line $y = mx - 9$ meets the graph of f at exactly one point.

(a) Show that $m = 4$. [6]

The function f can be expressed in the form $f(x) = 4(x-p)(x-q)$, where $p, q \in \mathbb{R}$.

(b) Find the value of p and the value of q . [2]

The function f can also be expressed in the form $f(x) = 4(x-h)^2 + k$, where $h, k \in \mathbb{R}$.

(c) Find the value of h and the value of k . [3]

(d) Hence find the values of x where the graph of f is both negative and increasing. [3]

Ib Math Paper 23

Freeman J. Dyson



Ib Math Paper 23:

Mathematics (Solved Papers) YCT Expert Team , 2023 24 DSSSB TGT PGT Mathematics Solved Papers **Norbert Wiener 1894-1964** Pesi R. Masani,2012-12-06 Norbert Wiener was an American mathematician and philosopher He was a professor of mathematics at the Massachusetts Institute of Technology MIT A child prodigy Wiener later became an early researcher in stochastic and mathematical noise processes contributing work relevant to electronic engineering electronic communication and control systems Wiener is considered the originator of cybernetics a formalization of the notion of feedback with implications for engineering systems control computer science biology neuroscience philosophy and the organization of society Wiener thought on a grand scale and stressed the adaptation of technical concepts from pure mathematics and electrical engineering outside their technical contexts Masani s interesting and thoughtful book analyses both Wiener s mathematical and his nonmathematical ideas in sympathetic and sensitive detail Readers will find much to appreciate in this book in addition to the discussion of Wiener s technical research *The Collected Mathematical Papers of Arthur Cayley* Arthur Cayley,1893 *Selected Papers Of Yu I Manin* Yu I Manin,1996-06-28 The book is a collection of research and review articles in several areas of modern mathematics and mathematical physics published in the span of three decades The ICM Kyoto talk Mathematics as Metaphor summarises the author s view on mathematics as an outgrowth of natural language **California Grocers Advocate** ,1908 *Matter Particled - Patterns, Structure And Dynamics: Selected Research Papers Of Yuval Ne'eman* Remo Ruffini,Yosef Verbin,2006-03-06 This unique volume contains a selection of more than 80 of Yuval Ne eman s papers which represent his huge contribution to a large number of aspects of theoretical physics The works span more than four decades from unitary symmetry and quarks to questions of complexity in biological systems and evolution of scientific theories In keeping with the major role Ne eman has played in theoretical physics over the last 40 years a collaboration of very distinguished scientists enthusiastically took part in this volume Their commentary supplies a clear framework and background for appreciating Yuval Ne eman s significant discoveries and pioneering contributions *Exactly Solved Models: A Journey In Statistical Mechanics - Selected Papers With Commentaries (1963-2008)* Fa Yueh Wu,2009-03-03 This unique volume provides a comprehensive overview of exactly solved models in statistical mechanics by looking at the scientific achievements of F Y Wu in this and related fields which span four decades of his career The book is organized into topics ranging from lattice models in condensed matter physics to graph theory in mathematics and includes the author s pioneering contributions Through insightful commentaries the author presents an overview of each of the topics and an insider s look at how crucial developments emerged With the inclusion of important pedagogical review articles by the author Exactly Solved Models is an indispensable learning tool for graduate students and an essential reference and source book for researchers in physics and mathematics as well as historians of science

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James Mark Baldwin, 1905

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