

IB Mathematics AA SL - Questionbank

Topic 2 All - Functions

All Questions for Topic 2 (Functions), Properties of Functions, Quadratics, Rational Functions, Exponent-Log Functions, Transformations

Question 96



[Maximum mark: 16]

The graph of a function f has its vertex at the point $(1, 7)$ and intersects the x -axis at $x = -3$.

Find f in the form $f(x) = a(x-h)^2 + k$. $f(-3) = a(x-1)^2 + 7$ $f(-3) = 0$

The function g is defined by $g(x) = mx^2 - 2nx + \frac{2m^2}{m}$ where $x \in \mathbb{R}$, $m \in \mathbb{R}^+$ and $n \in \mathbb{R}$.

In the case where $g(-2) = g(1) = 3$,

(i) find the value of m and the value of n ;

$y=0$

$$a(-3-1)^2 + 7 = 0$$

$$16a + 7 = 0$$

$$16a = -7$$

$$a = -\frac{7}{16}$$

$$f(x) = -\frac{7}{16}(x-1)^2 + 7$$

when $x = -2$

$$(-2)^2 m - 2n \cdot (-2) + \frac{2m^2}{m} = 3$$

$$4m + 4n + \frac{2m^2}{m} = 3$$

when $x = 1$

$$(1m + 2n + \frac{2m^2}{m}) - (4m + 4n + \frac{2m^2}{m}) = 0$$

$$3m + 6n = 0$$

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Georgia. Supreme Court



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Grade Booster ICSE Question Bank Mathematics Class 9 Munish Sethi,2025-09-03 An MCQ driven practice book for strengthening problem solving speed and accuracy Covering all units of the syllabus it provides step wise solutions quick calculation methods and examiner s guidance With repeated practice students gain confidence and efficiency to secure high marks in Mathematics

IB World Schools Yearbook 2011 Wendy Bosberry-Scott,2011 This yearbook is the official guide to schools offering the International Baccalaureate Diploma Middle Years and Primary Years 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 Organization

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Pedagogy in a New Tonality Peter Gouzouasis,2012-01-01 This is a book for teachers by teachers from elementary school to university level classrooms It is about the use of creative instructional strategies in K 12 classroom settings and the transformations the teachers made in their journeys from being traditional practitioners to becoming pedagogical in their approaches to teaching and learning across the curriculum Over twenty teachers conducted research in their classrooms on the implementation of creative strategies tactics graphics organizers and visual journals in teaching and learning They have written their inquiries in a narrative style informed by various forms of arts based educational research Their research is approachable and usable by other teachers who are interested in becoming reflective reflexive practitioners Many of the strategies tactics and graphics organizers are described by Barrie Bennett in his widely used textbook *Beyond Monet The Artful Science of Instructional Intelligence* However through their journeys of becoming teacher learner researchers many discovered numerous creative variations of Bennett s work as it was implemented in their classrooms While there are many professional books that provide ideas on collaborative learning and creative teaching approaches there is very little published research on the efficacy of these concepts in the K 12 classroom These inquiries provide practical insights into how inspired teachers can conduct research on improving their own practice as well as on greatly improving their students learning Thus this book has widespread interest for teachers and administrators who seek to

implement systemic changes in the ways that teachers teach and children learn in the 21st century *Digest of the Decisions of the Supreme Court of the State of Alabama ...* James Jefferson Mayfield,1901 *Reports of Cases Argued and Determined in the Supreme Court of Alabama* Alabama. Supreme Court,1907 Contents Minor s Reports v l Stewart s Reports v 1 3 Stewart and Porter s Reports v 1 5 Porter s Reports v 1 9 Alabama Reports v 1 80 **Mathematical Reviews** ,2008

An Inventory of the Ancient Monuments in Wales and Monmouthshire ...: County of Merioneth Royal Commission on the Ancient and Historical Monuments and Constructions in Wales and Monmouthshire,1921 **Reports of Cases Decided in the Supreme Court of the State of Georgia at the ...** Georgia. Supreme Court,1901 *Mathew Carey, a Bibliography of His Publications, 1785-1824* William Clarkin,1984 **Reports of Cases in Law and Equity, Argued and Determined in the Supreme Court of the State of Georgia** Georgia. Supreme Court,1901 **Reports of Cases Argued and Determined in the Supreme Court of the State of Vermont** Vermont. Supreme Court,1890

Readers' Guide to Periodical Literature ,1920 *Iron Trade Review* ,1905 **The National Corporation Reporter** ,1921 *Coptic Ostraca* Frank Edward Brightman,1902 *Coptic Ostraca From The Collections Of The Egypt Exploration Fund The Cairo Museum And Others* 1902 is a book written by Walter Ewing Crum The book is a compilation of various Coptic ostraca which are small pieces of pottery stone or wood that were used as writing surfaces in ancient Egypt The ostraca were collected from various sources such as the Egypt Exploration Fund the Cairo Museum and others The book contains detailed descriptions of the ostraca including their provenance dating and content The content of the ostraca includes letters contracts receipts and other documents that provide insight into the daily life and commerce of ancient Egypt The book also includes illustrations of the ostraca which provide a visual representation of the writing and artwork found on them *Coptic Ostraca From The Collections Of The Egypt Exploration Fund The Cairo Museum And Others* 1902 is a valuable resource for scholars and anyone interested in the history and culture of ancient Egypt This scarce antiquarian book is a facsimile reprint of the old original and may contain some imperfections such as library marks and notations Because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to their original work **Compute** ,1985-07 *Engineering News and American Railway Journal* ,1900 *Bell & Howell Newspaper Index to the Los Angeles Times* ,1983

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