

(For those who joined in December 2015)

Time : Three hours

Maximum : 100 marks

PART A — ($4 \times 10 = 40$ marks)

Answer any FOUR questions.

1. Prove the following
- (a) Probability of the null set is zero; that $P(\phi) = 0$
 - (b) For each $C_1 \subset \xi$, $P(C) = 1 - P(C^*)$
 - (c) If C_1 and C_2 are subsets of ξ such that $C_1 \subset C_2$, then $P(C_1) \leq P(C_2)$
 - (d) If C_1 and C_2 are subsets of ξ , then $P(C_1 \cup C_2) = P(C_1) + P(C_2) - P(C_1 \cap C_2)$.
 - (e) For each $C \subset \xi$, $0 \leq P(C) \leq 1$.
2. Let X and Y have the joint p.d.f
- $f(x, y) = 6(1 - x - y)$, $0 < x, 0 < y, x + y < 1$ and zero elsewhere. Compute $P(2X + 3Y < 1)$ and $E(XY + 2X^2)$.

Msc Maths Question Paper Algebar

**Ulrich Daepp, Pamela Gorkin, Andrew
Shaffer, Karl Voss**



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Commutative Algebra Joseph Brennan, Aron Simis, 2025-09-22 Wolmer Vasconcelos was one of the giants in the development of Commutative Algebra in the latter half of the twentieth century and the first decades of the twenty first century This work collects in one place essays illustrating the important developments of his work particularly in commutative algebra that permits the reader to see the development of his important ideas and how they influence the development of mathematics today Beiträge Zur Algebra und Geometrie ,2007 **Mathematical Reviews** ,2008

Function Theory on Symplectic Manifolds Leonid Polterovich, Daniel Rosen, 2014 This is a book on symplectic topology a rapidly developing field of mathematics which originated as a geometric tool for problems of classical mechanics Since the 1980s powerful methods such as Gromov's pseudo holomorphic curves and Morse Floer theory on loop spaces gave rise to the discovery of unexpected symplectic phenomena The present book focuses on function spaces associated with a symplectic manifold A number of recent advances show that these spaces exhibit intriguing properties and structures giving rise to an alternative intuition and new tools in symplectic topology The book provides an essentially self contained introduction into these developments along with applications to symplectic topology algebra and geometry of symplectomorphism groups Hamiltonian dynamics and quantum mechanics It will appeal to researchers and students from the graduate level onwards

(Free version) *Abacus & Mental Arithmetic Course Book* Mathewmatician, All four arithmetic examples and exercises are provided with detailed and smooth versions of video teaching It is suitable to Children with strong self learning ability Parents who train their children on their own Kindergarten or Primary school teacher Students majoring in early childhood education or elementary education in universities and colleges Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class Finding Ellipses: What Blaschke Products, Poncelet's Theorem, and the Numerical Range Know about Each Other Ulrich Daep, Pamela Gorkin, Andrew Shaffer, Karl Voss, 2018 Mathematicians delight in finding surprising connections between seemingly disparate areas of mathematics Finding Ellipses is a delight filled romp across a three way unexpected connection between complex analysis linear algebra and projective geometry **Abstracts of Papers Presented to the American Mathematical Society**

American Mathematical Society, 2008 **Elementary Theory of Groups and Group Rings, and Related Topics** Paul Baginski, Benjamin Fine, Anja Moldenhauer, Gerhard Rosenberger, Vladimir Shpilrain, 2020-02-10 This proceedings volume documents the contributions presented at the conference held at Fairfield University and at the Graduate Center CUNY in 2018 celebrating the New York Group Theory Seminar in memoriam Gilbert Baumslag and to honor Benjamin Fine and Anthony Gaglione It includes several expert contributions by leading figures in the group theory community and provides a valuable source of information on recent research developments *MIXED NONEUCLIDEAN GEOMETRIES* Florentin Smarandache, The goal of this paper is to experiment new math concepts and theories especially if they run counter to the

classical ones To prove that contradiction is not a catastrophe and to learn to handle it in an unusual way **Unsolved Problems in Number Theory** Richard Guy, 2013-11-11 To many laymen mathematicians appear to be problem solvers people who do hard sums Even inside the profession we classify ourselves as either theorists or problem solvers Mathematics is kept alive much more than by the activities of either class by the appearance of a succession of unsolved problems both from within mathematics itself and from the increasing number of disciplines where it is applied Mathematics often owes more to those who ask questions than to those who answer them The solution of a problem may stifle interest in the area around it But Fermat's Last Theorem because it is not yet a theorem has generated a great deal of good mathematics whether goodness is judged by beauty by depth or by applicability To pose good unsolved problems is a difficult art The balance between triviality and hopeless unsolvability is delicate There are many simply stated problems which experts tell us are unlikely to be solved in the next generation But we have seen the Four Color Conjecture settled even if we don't live long enough to learn the status of the Riemann and Goldbach hypotheses of twin primes or Mersenne primes or of odd perfect numbers On the other hand unsolved problems may not be unsolved at all or than was at first thought

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