

QUESTION 3

- 3.1 Given the quadratic sequence: $-1 ; -7 ; -11 ; p ; \dots$
- 3.1.1 Write down the value of p . (2)
- 3.1.2 Determine the n^{th} term of the sequence. (4)
- 3.1.3 The first difference between two consecutive terms of the sequence is 96. Calculate the values of these two terms. (4)
- 3.2 The first three terms of a geometric sequence are: $16 ; 4 ; 1$
- 3.2.1 Calculate the value of the 12^{th} term. (Leave your answer in simplified exponential form.) (3)
- 3.2.2 Calculate the sum of the first 10 terms of the sequence. (2)
- 3.3 Determine the value of: $\left(1 + \frac{1}{2}\right)\left(1 + \frac{1}{3}\right)\left(1 + \frac{1}{4}\right)\left(1 + \frac{1}{5}\right) \dots$ up to 98 factors. (4)

Mathematics Paper November 2014 Memo

**Marco Bramanti, Luca Brandolini, Maria
Manfredini, Marco Pedroni**



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A Homology Theory for Smale Spaces Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basic sets for an Axiom A diffeomorphism. It is based on two ingredients. The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite-to-one factor map. The second is Krieger's dimension group invariant for shifts of finite type. He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups. The existence of such a theory was proposed by Bowen in the 1970s.

On the Differential Structure of Metric Measure Spaces and Applications Nicola Gigli, 2015-06-26 The main goals of this paper are i) To develop an abstract differential calculus on metric measure spaces by investigating the duality relations between differentials and gradients of Sobolev functions. This will be achieved without calling into play any sort of analysis in charts, our assumptions being the metric space is complete and separable and the measure is Radon and non-negative. ii) To employ these notions of calculus to provide via integration by parts a general definition of distributional Laplacian, thus giving a meaning to an expression like $\int \Delta f \, d\mu$ where f is a function and μ is a measure. iii) To show that on spaces with Ricci curvature bounded from below and dimension bounded from above, the Laplacian of the distance function is always a measure and that this measure has the standard sharp comparison properties. This result requires an additional assumption on the space which reduces to strict convexity of the norm in the case of smooth Finsler structures and is always satisfied on spaces with linear Laplacian, a situation which is analyzed in detail.

Critical Population and Error Threshold on the Sharp Peak Landscape for a Moran Model Raphaël Cerf, 2014-12-20 The goal of this work is to propose a finite population counterpart to Eigen's model which incorporates stochastic effects. The author considers a Moran model describing the evolution of a population of size N of chromosomes of length L over an alphabet of cardinality Σ . The mutation probability per locus is μ . He deals only with the sharp peak landscape where the replication rate is r_0 for the master sequence and r_1 for the other sequences. He studies the equilibrium distribution of the process in the regime where $N\mu \ll 1$.

Applications of Polyfold Theory I: The Polyfolds of Gromov-Witten Theory H. Hofer, K. Wysocki, E. Zehnder, 2017-07-13 In this paper the authors start with the construction of the symplectic field theory SFT. As a general theory of symplectic invariants, SFT has been outlined in *Introduction to symplectic field theory* 2000 by Y. Eliashberg, A. Givental, and H. Hofer, who have predicted its formal properties. The actual construction of SFT is a hard analytical problem which will be overcome by means of the polyfold theory due to the present authors. The current paper addresses a significant amount of the arising issues and the general theory will be completed in part II of this paper. To illustrate the polyfold theory, the authors use the results of the present paper to describe an alternative construction of the Gromov-Witten invariants for general compact symplectic manifolds.

Fundamental Solutions and Local Solvability for Nonsmooth Hormander's Operators Marco Bramanti, Luca Brandolini, Maria Manfredini, Marco Pedroni, 2017-09-25 The authors consider operators of

the form in a bounded domain of where are nonsmooth Hölder continuous vector fields of step such that the highest order commutators are only Hölder continuous Applying Levi's parametrix method the authors construct a local fundamental solution for and provide growth estimates for and its first derivatives with respect to the vector fields Requiring the existence of one more derivative of the coefficients the authors prove that also possesses second derivatives and they deduce the local solvability of constructing by means of a solution to with Hölder continuous The authors also prove estimates on this solution

Military Cost-Benefit Analysis Francois Melese, Anke Richter, Binyam Solomon, 2015-03-27 This is the first comprehensive book on Military Cost Benefit Analysis and provides novel approaches to structuring cost benefit and affordability analysis amidst an uncertain defense environment and cloudy fiscal prospects Lifting the veil on military Cost Benefit Analysis this volume offers several new practical tools designed to guide defense investments and divestments combined with a selection of real world applications The widespread employment of Cost Benefit Analysis offers a unique opportunity to transform legacy defense forces into efficient effective and accountable 21st century organizations A synthesis of economics statistics and decision theory CBA is currently used in a wide range of defense applications in countries around the world i to shape national security strategy ii to set acquisition policy and iii to inform critical investments in people equipment infrastructure services and supplies As sovereign debt challenges squeeze national budgets and emerging threats disrupt traditional notions of security this volume offers valuable tools to navigate the political landscape meet calls for fiscal accountability and boost the effectiveness of defense investments to help guarantee future peace and stability A valuable resource for scholars practitioners novices and experts this book offers a comprehensive overview of Military Cost Benefit Analysis and will appeal to anyone interested or involved in improving national security and will also be of general interest to those responsible for major government programs projects or policies Elliptic PDEs on Compact Ricci Limit Spaces and Applications

Shouhei Honda, 2018-05-29 In this paper the author studies elliptic PDEs on compact Gromov Hausdorff limit spaces of Riemannian manifolds with lower Ricci curvature bounds In particular the author establishes continuities of geometric quantities which include solutions of Poisson's equations eigenvalues of Schrödinger operators generalized Yamabe constants and eigenvalues of the Hodge Laplacian with respect to the Gromov Hausdorff topology The author applies these to the study of second order differential calculus on such limit spaces Studies in Intelligence, 2016 **Local Entropy**

Theory of a Random Dynamical System Anthony H. Dooley, Guohua Zhang, 2014-12-20 In this paper the authors extend the notion of a continuous bundle random dynamical system to the setting where the action of $\mathbb{R}$ or $\mathbb{N}$ is replaced by the action of an infinite countable discrete amenable group Given such a system and a monotone sub additive invariant family of random continuous functions they introduce the concept of local fiber topological pressure and establish an associated variational principle relating it to measure theoretic entropy They also discuss some variants of this variational principle The authors introduce both topological and measure theoretic entropy tuples for continuous bundle random dynamical systems

and apply variational principles to obtain a relationship between these of entropy tuples Finally they give applications of these results to general topological dynamical systems recovering and extending many recent results in local entropy theory

Thinking and Acting Systemically Alan Daly, Kara Finnigan, 2016-05-19 This volume argues that districts are important as a lever for change given the limited success of school by school efforts Policies that focus on skill development recognize and support performance create opportunities for collaboration build leader capacity and create networks of knowledge sharing hold great potential for improving districts but it will require a paradigm shift in the way we view our public school system and those who work within it away from blame and toward complex systems change

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