

Some Solved and Unsolved Problems of Mine in Number Theory

Paul Erdős

I.

Let $p_1 < p_2 < \dots$ be the sequence of consecutive primes. Put $p_{n+1} - p_n = d_n$. It is well known that the sequence d_n behaves very irregularly. An old result of Ricci and myself states that the set of limit points of $d_n/\log n$ has positive measure. "It is of course clear to every right thinking person" that the set $d_n/\log n$ is dense in $(0, \infty)$, but we are very far from being able to prove this ("we" here stands for the collective intelligence (or rather stupidity) of the human race). By a result of Westzynthius, ∞ is a limit point of $d_n/\log n$ but no other limit point is known.

Turan and I easily proved that both inequalities $d_n > d_{n+1}$ and $d_n < d_{n+1}$ have infinitely many solutions; we noticed with some annoyance and disappointment that we could not prove that $d_n > d_{n+1} > d_{n+2}$ has infinitely many solutions. We were even more annoyed when we soon noticed that we could not even prove that either $d_n > d_{n+1} > d_{n+2}$ or $d_n < d_{n+1} < d_{n+2}$ has infinitely many solutions. In other words we could not prove that for every n , $(-1)^k(d_{n+1+1} - d_{n+1})$ must have infinitely many changes of sign. I offer 250 dollars for a proof of this conjecture (and 25,000 for a disproof).

Put $f(n) = \log n \log \log n \log \log \log n / (\log \log \log n)^2$. Rankin proved in 1938 that

$$(1) \quad \limsup \left(\frac{d_n}{f(n)} \right) > 0 .$$

I offered 10,000 dollars for a proof of

$$(2) \quad \limsup \left(\frac{d_n}{f(n)} \right) = \infty .$$

Solved Unsolved Problems In Number Vol

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Solved Unsolved Problems In Number Vol:

Notes and Problems in Number Theory (Volume I) Taha Sochi, 2023-10-22 This book is the first volume of a collection of notes and solved problems about number theory Like my previous books maximum clarity was one of the main objectives and criteria in determining the style of writing presenting and structuring the book as well as selecting its contents Modest mathematical background knowledge is required for understanding most of the contents of the book In fact the book in most parts requires no more than a college or secondary school level of general mathematics So the intended readers of the book are primarily college or A level students as well as junior undergraduate students e g in mathematics or science or engineering The book can be used as a text or as a reference for an introductory course on this subject and may also be used for general reading in mathematics The book may also be adopted as a source of pedagogical materials which can supplement for instance tutorial sessions e g in undergraduate courses on mathematics or science *Solved and Unsolved*

Problems in Number Theory Daniel Shanks (f. 1917), 1964 **Applications of Fibonacci Numbers** Fredric T. Howard, 2012-12-06 This book contains 33 papers from among the 41 papers presented at the Eighth International Conference on Fibonacci Numbers and Their Applications which was held at the Rochester Institute of Technology Rochester New York from June 22 to June 26 1998 These papers have been selected after a careful review by well known referees in the field and they range from elementary number theory to probability and statistics The Fibonacci numbers and recurrence relations are their unifying bond It is anticipated that this book like its seven predecessors will be useful to research workers and graduate students interested in the Fibonacci numbers and their applications June 1 1999 The Editor F T Howard Mathematics and Computer Science Wake Forest University Box 7388 Reynolda Station Winston Salem NC USA xvii THE ORGANIZING COMMITTEES LOCAL COMMITTEE INTERNATIONAL COMMITTEE Anderson Peter G Chairman Horadam A F Australia Co Chair Arpaya Pasqual Philippou A N Cyprus Co Chair Biles John Bergum G E U S A Orr Richard Filipponi P Italy Radziszowski Stanislaw Harborth H Germany Rich Nelson Horibe Y Japan Howard F U S A Johnson M U S A Kiss P Hungary Phillips G M Scotland Turner J New Zealand Waddill M E U S A xix LIST OF CONTRIBUTORS TO THE CONFERENCE AGRATINI OCTAVIAN Unusual Equations in Study ANDO SHIRO coauthor Daihachiro Sato On the Generalized Binomial Coefficients Defined by Strong Divisibility Sequences ANATASSOVA VASSIA K coauthor J C

Recent Progress in Solving Some Farm Problems of Illinois University of Illinois at Urbana-Champaign. Agricultural Experiment Station, 1923 *Mathematics and Plausible Reasoning, Volume 1* George Polya, 2020-09-01 A guide to the practical art of plausible reasoning this book has relevance in every field of intellectual activity Professor Polya a world famous mathematician from Stanford University uses mathematics to show how hunches and guesses play an important part in even the most rigorously deductive science He explains how solutions to problems can be guessed at good guessing is often more important than rigorous deduction in finding correct solutions Vol I on Induction and Analogy in Mathematics

covers a wide variety of mathematical problems revealing the trains of thought that lead to solutions pointing out false bypaths discussing techniques of searching for proofs Problems and examples challenge curiosity judgment and power of invention **Mathematical Spectrum** ,1980 **The Journal of the Engineering Institute of Canada** Engineering Institute of Canada,1922 Bulletin of Mathematical Association of India ,1979 **Journal of the Engineering Institute of Canada** ,1920 Vol 7 no 7 July 1924 contains papers prepared by Canadian engineers for the first World power conference July 1924 Tomorrow's Math; Unsolved Problems for the Amateur Charles Stanley Ogilvy,1972 The meaning of an unsolved problem Applied problems Problems concerning games Geometrical problems Arithmetical problems Topological problems Probability and combinatorial problems A glimpse of some problems of analysis Fibonnaci numbers Squares Circles Palindrome Boolean algebra _____ **Proceedings** Pennsylvania State University. Schoolmen's Week,1928 **The Engineering Journal** ,1922 **Van Nostrand's Eclectic Engineering Magazine** ,1877 Index of the Periodical Dental Literature Published in the English Language ,1921 *The Spectator* ,1904 A weekly review of politics literature theology and art *Quarterly Journal of the Royal Meteorological Society* Royal Meteorological Society (Great Britain),1930 Vols 10 11 include Meteorology of England by James Glaisher as seperately paged section at end Engineering Index Annual ,1930 **Nature** Sir Norman Lockyer,1922 **Proceedings** ,1928 Resolved University of Iowa,1914

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the infection? 3. What are some possible causes of skin infections? List ... Chapter 21 Flashcards (review the NEWBORN NIGHTMARE case study). Exfoliative toxin from Staph. aureus. Fever, red raised blistering skin, peeling skin. Culture baby's nose and ... CASE TEACHING NOTES for "The Case of the Newborn ... by A Wade — CASE TEACHING NOTES for "The Case of the Newborn Nightmare" by Andrea Wade. Page 3. ANSWER KEY. Answers to the questions posed in the case ... Solved Newborn nightmare by Andrea Wade, what are the Oct 5, 2019 — Newborn nightmare is a case study done by Dr Andrea wade. Case study focuses on development of mysterious rashes among newborns. The Case of the Newborn Nightmare Oct 10, 2001 — Three newborns left in the care of "Dr. Mark Maddison" have developed a mysterious rash. Under increasing pressure from hospital ... Lab Practical Flashcards In regard to the "Case of the Newborn Nightmare," what was the name of the bacteria that caused the whole neighborhood to be sick? What is the common source ... Manual Practico Nx 8 Pdf Page 1. Manual Practico Nx 8 Pdf. INTRODUCTION Manual Practico Nx 8 Pdf Copy. NX8 USERS MANUAL - All Star Security THIS MANUAL IS FURNISHED TO HELP YOU UNDERSTAND YOUR SECURITY. SYSTEM AND BECOME PROFICIENT IN ITS OPERATION. ALL USERS OF. YOUR SECURITY SYSTEM SHOULD READ ... Introduccion NX 9 | PDF | E Books - Scribd Free access for PDF Ebook Manual Practico Nx 8. Get your free Manual Practico Nx 8 now. There are numerous e-book titles readily available in our online ... Manual Práctico NX8 CADEditorial Bubok A lo largo de este manual encontrará los contenidos ordenados en bloques temáticos como: modelado, superficies o ensamblajes. NetworX NX-8 Control/Communicator Installation Manual Manual Test- The NX-8 can be programmed to perform a bell and/or communicator test when [r]-[4] is entered while the system is in the disarmed state. (See ... NX-8-User-Manual-(Spanish).pdf - Grupo Gamma RECUERDE LEER EL MANUAL, Y, SI ES POSIBLE, PRACTICAR CON EL TECLADO. DE ... NX-8 USER'S MANUAL. NX8UA98SP. REV A (05-10-98) NOTAS DE SU SISTEMA DE SEGURIDAD RECUERDE LEER EL MANUAL, Y, SI ES POSIBLE, PRACTICAR CON EL TECLADO. DE CONTROL MIENTRAS QUE SU INSTALADOR SE ... NX-8 USER'S MANUAL. NX8UA98SP. REV A (05-10-98) NetworX - Central NX-8E Manual de Instalación y programación Eliminación de las 8 Zonas de la Central NX-8E - Las 8 zonas de la central NX-8E pueden anularse, para poder tener un sistema totalmente vía radio o para ... manual nx | PDF Apr 1, 2013 — manual nx. 1. MANUAL PRÁCTICO NX 7 - CAD Esta publicación está sujeta ... 8. CAPÍTULO 23 - CONJUNTOS DE REFERENCIA ... User manual Spektrum NX8 (English - 54 pages) Manual. View the manual for the Spektrum NX8 here, for free. This manual comes under the category radio controlled toys and has been rated by 7 people with ... Pobre Ana (Poor Anna) with English Translation! - Chapter 1 Read Chapter 1: from the story Pobre Ana (Poor Anna) with English Translation! by Wolfe225 (That One Girl) with 132745 reads.want this book to be updated? Chapter 3 - Pobre Ana (Poor Anna) with English Translation! Read Chapter 3: from the story Pobre Ana (Poor Anna) with English Translation! by Wolfe225 (That One Girl) with 136261 reads.-Anna, Mexico is very different ... Pobre ana chapter 3 translation Pobre ana chapter 3 translation. Ana looked at it with admiration. She has No ... The word "a la pobre" is a

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