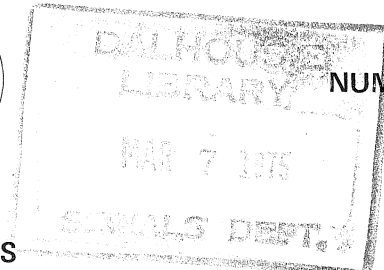


11/20/74

THE FIBONACCI QUARTERLY

THE OFFICIAL JOURNAL OF
THE FIBONACCI ASSOCIATION

VOLUME 13



NUMBER 1

CONTENTS

A Farey Sequence of Fibonacci Numbers	<i>Krishnaswami Alladi</i>	1
The Number of Orderings of n Candidates When Ties are Permitted	<i>I. J. Good</i>	11
Chebyshev Polynomials and Related Sequences.	<i>G.E. Bergum, W.J. Wagner, and V.E. Hoggatt, Jr.</i>	19
Some Results Concerning the Non-Existence of Odd Perfect Numbers of the Form $p^\alpha M^{2\beta}$	<i>W.L. McDaniel and Peter Hagsis, Jr.</i>	25
An Interesting Sequence of Fibonacci Sequence Generators	<i>Joseph J. Heed and Lucille Kelly</i>	29
A Rapid Method to Form Farey Fibonacci Fractions	<i>Krishnaswami Alladi</i>	31
A Simple Proof that Phi is Irrational.	<i>Jeffrey Shallit</i>	32
Symmetric Sequences	<i>Brother Alfred Brousseau</i>	33
Some Interesting Necessary Conditions For $(a - 1)^n + (b - 1)^n - (c - 1)^n = 0$	<i>John W. Layman</i>	42
Fibonacci Tiles	<i>Herbert L. Holden</i>	45
Embedding a Semigroup in a Ring	<i>Hugo S. Sun</i>	50
The Sequence: 1 5 16 45 121 320 ... In Combinatorics	<i>Kenneth R. Rebman</i>	51
Non-Basic Triples	<i>Norman Woo</i>	56
New Relations Between Fibonacci and Bernoulli Numbers	<i>Paul F. Byrd</i>	59
Star of David Theorem (I)	<i>Sin Hitotumatu and Daihachiro Sato</i>	70
Eulerian Numbers and Operators	<i>L. Carlitz and Richard Scoville</i>	71
Diophantine Representation of the Fibonacci Numbers	<i>James P. Jones</i>	84
Advanced Problems and Solutions	<i>Edited by Raymond E. Whitney</i>	89
Elementary Problems and Solutions.	<i>Edited by A. P. Hillman</i>	94

FEBRUARY

1975

THE FIBONACCI QUARTERLY

THE OFFICIAL JOURNAL OF THE FIBONACCI ASSOCIATION

DEVOTED TO THE STUDY
OF INTEGERS WITH SPECIAL PROPERTIES

CO-EDITORS

V. E. Hoggatt, Jr. Marjorie Bicknell

EDITORIAL BOARD

H. L. Alder	H. W. Gould
John L. Brown, Jr.	A. P. Hillman
Brother A. Brousseau	David A. Klarner
Paul F. Byrd	Donald E. Knuth
L. Carlitz	C. T. Long
H. W. Eves	M.N.S. Swamy
	D. E. Thoro

WITH THE COOPERATION OF

Terry Brennan	D. A. Lind
Maxey Brooke	James Maxwell
Calvin D. Crabill	Sister M. DeSales McNabb
T. A. Davis	Gerald Preston
John H. Halton	D. W. Robinson
A. F. Horadam	Azriel Rosenfeld
Dov Jarden	Lloyd Walker
Stephen Jerbic	Charles H. Wall
L. H. Lange	

The California Mathematics Council

All subscription correspondence should be addressed to Brother Alfred Brousseau, St. Mary's College, California 94575. All checks (\$12.00 per year) should be made out to the Fibonacci Association or the Fibonacci Quarterly. Two copies of manuscripts intended for publication in the Quarterly should be sent to Verner E. Hoggatt, Jr., Mathematics Department, San Jose State University, San Jose, California 95192. All manuscripts should be typed, double-spaced. Drawings should be made the same size as they will appear in the Quarterly, and should be done in India ink on either vellum or bond paper. Authors should keep a copy of the manuscript sent to the editors.

The Quarterly is entered as third-class mail at the St. Mary's College Post Office, Calif., as an official publication of the Fibonacci Association.

The Quarterly is published in February, April, October, and December each year.