

✓

MEMBER

THE FIBONACCI QUARTERLY

THE OFFICIAL JOURNAL OF
THE FIBONACCI ASSOCIATION



VOLUME 10

NUMBER 2

CONTENTS

PART I — ADVANCED

Fibonacci Search with Arbitrary First Evaluation.	<i>Christoph Witzgall</i>	113
Some Properties of Third-Order Recurrence Relations	<i>A. G. Shannon and A. F. Horadam</i>	135
Determinants and Identities Involving Fibonacci Squares	<i>Marjorie Bicknell</i>	147
A Generating Function for Partly Ordered Partitions	<i>L. Carlitz</i>	157
Fibonacci Primitive Roots.	<i>Daniel Shanks</i>	163
An Interesting Sequence of Numbers Derived From Various Generating Functions	<i>Paul S. Bruckman</i>	169
Table of Indices with a Fibonacci Relation	<i>Brother Alfred Brousseau</i>	182
Advanced Problems and Solutions	<i>Edited by Raymond E. Whitney</i>	185

PART II — ELEMENTARY

Fibonacci Magic Cards.	<i>Brother Alfred Brousseau</i>	197
The Lambert Function	<i>Wray G. Brady</i>	199
Fibonacci Once Again	<i>J. A. H. Hunter</i>	201
A Note on Pythagorean Triplets.	<i>Harlan L. Umansky</i>	203
A Generalized Greatest Integer Function Theorem	<i>Robert Anaya and Janice Crump</i>	207
Back-to-Back: Some Interesting Relationships Between Representations of Integers In Various Bases	<i>J. A. H. Hunter and Joseph S. Madachy</i>	213
Elementary Problems and Solutions	<i>Edited by A. P. Hillman</i>	218

62
255
FS

FEBRUARY

1972

THE FIBONACCI QUARTERLY

THE OFFICIAL JOURNAL OF THE FIBONACCI ASSOCIATION

DEVOTED TO THE STUDY
OF INTEGERS WITH SPECIAL PROPERTIES

EDITORIAL BOARD

H. L. Alder
Marjorie Bicknell
John L. Brown, Jr.
Brother A. Brousseau
L. Carlitz
H. W. Eves
H. W. Gould

A. P. Hillman
V. E. Hoggatt, Jr.
Donald E. Knuth
D. A. Lind
C. T. Long
M. N. S. Swamy
D. E. Thoro

WITH THE COOPERATION OF

Terry Brennan
Maxey Brooke
Paul F. Byrd
Calvin D. Crabill
John H. Halton
A. F. Horadam
Dov Jarden
Stephen Jerbic

L. H. Lange
James Maxwell
Sister M. DeSales McNabb
D. W. Robinson
Azriel Rosenfeld
Lloyd Walker
Charles H. Wall

The California Mathematics Council

All subscription correspondence should be addressed to Brother Alfred Brousseau, St. Mary's College, California. All checks (\$6.00 per year) should be made out to the Fibonacci Association or the Fibonacci Quarterly. Manuscripts intended for publication in the Quarterly should be sent to Verner E. Hoggatt, Jr., Mathematics Department, San Jose State College, San Jose, California. 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, California, as an official publication of the Fibonacci Association.