

Pacific Journal of Mathematics

$$\pi(x) \sim \frac{x}{\log x}$$

IN THIS ISSUE—

L. Carlitz, <i>Some theorems on generalized Dedekind sums</i>	513
L. Carlitz, <i>The reciprocity theorem for Dedekind sums</i>	523
Edward R. Fadell, <i>Identifications in singular homology theory</i>	529
Harley Flanders, <i>A method of general linear frames in Riemannian geometry, I</i>	551
W. Fulks, <i>The Neumann problem for the heat equation</i>	567
P. R. Garabedian, <i>Orthogonal harmonic polynomials</i>	585
R. E. Greenwood and A. M. Gleason, <i>Distribution of round-off errors for running averages</i>	605
Arthur E. Livingston, <i>The space H^p, $0 < p < 1$, is not normable</i>	613
M. N. Mikhail, <i>On the order of the reciprocal set of a basic set of polynomials</i>	617
L. J. Mordell, <i>On the linear independence of algebraic numbers</i>	625
Leo Sario, <i>Alternating method on arbitrary Riemann surfaces</i>	631
Harold N. Shapiro, <i>Iterates of arithmetic functions and a property of the sequence of primes</i>	647
H. Shniad, <i>Convexity properties of integral means of analytic functions</i>	657
Marlow Sholander, <i>Plane geometries from convex plates</i>	667

PACIFIC JOURNAL OF MATHEMATICS

EDITORS

R. M. ROBINSON

University of California
Berkeley 4, California

E. HEWITT

University of Washington
Seattle 5, Washington

R. P. DILWORTH

California Institute of Technology
Pasadena 4, California

E. F. BECKENBACH

University of California
Los Angeles 24, California

ASSOCIATE EDITORS

H. BUSEMANN

HERBERT FEDERER

MARSHALL HALL

P. R. HALMOS

HEINZ HOPF

R. D. JAMES

BØRGE JESSEN

PAUL LÉVY

GEORGE PÓLYA

J. J. STOKER

E. G. STRAUS

KÔSAKU YOSIDA

SPONSORS

UNIVERSITY OF BRITISH COLUMBIA

CALIFORNIA INSTITUTE OF TECHNOLOGY

UNIVERSITY OF CALIFORNIA, BERKELEY

UNIVERSITY OF CALIFORNIA, DAVIS

UNIVERSITY OF CALIFORNIA, LOS ANGELES

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

UNIVERSITY OF NEVADA

OREGON STATE COLLEGE

UNIVERSITY OF OREGON

UNIVERSITY OF SOUTHERN CALIFORNIA

STANFORD RESEARCH INSTITUTE

STANFORD UNIVERSITY

WASHINGTON STATE COLLEGE

UNIVERSITY OF WASHINGTON

* * *

AMERICAN MATHEMATICAL SOCIETY

NATIONAL BUREAU OF STANDARDS,

INSTITUTE FOR NUMERICAL ANALYSIS

Mathematical papers intended for publication in the *Pacific Journal of Mathematics* should be typewritten (double spaced), and the author should keep a complete copy. Manuscripts may be sent to any of the editors except Robinson, whose term expires with the completion of the present volume; they might also be sent to M. M. Schiffer, Stanford University, Stanford, California, who is succeeding Robinson. All other communications to the editors should be addressed to the managing editor, E. F. Beckenbach, at the address given above.

Authors are entitled to receive 100 free reprints of their published papers and may obtain additional copies at cost.

The *Pacific Journal of Mathematics* is published quarterly, in March, June, September, and December. The price per volume (4 numbers) is \$8.00; single issues, \$2.50. Special price to individual faculty members of supporting institutions and to individual members of the American Mathematical Society: \$4.00 per volume; single issues, \$1.25.

Subscriptions, orders for back numbers, and changes of address should be sent to the publishers, University of California Press, Berkeley 4, California.

Printed at Ann Arbor, Michigan. Entered as second class matter at the Post Office, Berkeley, California.

UNIVERSITY OF CALIFORNIA PRESS • BERKELEY AND LOS ANGELES

COPYRIGHT 1953 BY PACIFIC JOURNAL OF MATHEMATICS