

CONTENTS

Vol. 1, No. 3

September, 1957

| | Page |
|---|------|
| A probabilistic approach to problems of Diophantine approximation By P. ERDÖS and A. RÉNYI. | 303 |
| Markoff processes and potentials II By G. A. HUNT. | 316 |
| Singular hypersurfaces in general relativity By A. H. TAUB. | 370 |
| Solvable factorizable groups By W. R. SCOTT. | 389 |
| Smoothing methods for contours By L. CESARI and R. E. FULLERTON. | 395 |
| Underpolynomials and infrapolynomials By T. S. MOTZKIN and J. L. WALSH. | 406 |
| A Jacobian criterion of simple points By MASAYOSHI NAGATA. | 427 |
| Some duality theorems By J. J. PRICE. | 433 |
| Pairs of matrices of order two which generate free groups By K. GOLDBERG and M. NEWMAN. | 446 |
| Some extreme value results for indefinite Hermitian matrices By M. MARCUS, B. N. MOYLS, and R. WESTWICK. | 449 |

Published by the University of Illinois Press in March, June, September, and December. Supported in part by the George A. Miller Endowment. Printed by Waverly Press, Baltimore, Maryland.

The subscription price is \$9.00 a volume (four numbers); this is reduced to \$5.00 for individual members of the American Mathematical Society. The price of a single number is \$3.00. Subscriptions should be sent to the University of Illinois Press, 207 Administration East, Urbana, Illinois.