



## CONTENTS

### A — ALGEBRA AND NUMBER THEORY

H. R. Alagia, <i>Cartan subalgebras of Banach-Lie algebras of operators</i> .....	1
T. M. Apostol and T. H. Vu, <i>Elementary proofs of Berndt's reciprocity laws</i> .....	17
M. Cohen, <i>A Morita context related to finite automorphism groups of rings</i> .....	37
K. R. Johnson, <i>A reciprocity law for Ramanujan sums</i> .....	99
G. Kolesnik, <i>On the order of <math>\zeta(1/2 + it)</math> and <math>\Delta(R)</math></i> .....	107
D. J. Madden and W. Y. Vélez, <i>Polynomials that represent quadratic residues at primitive roots</i> .....	123
E. D. Sontag, <i>Remarks on piecewise-linear algebra</i> .....	183

### B — ANALYSIS

W. Doeringer, <i>Exceptional values of differential polynomials</i> .....	55
P. Flinn, <i>A characterization of <math>M</math>-ideals in <math>B(\mathcal{L}_p)</math> for <math>1 &lt; p &lt; \infty</math></i> .....	73
A. Granata, <i>A geometric characterization of <math>n</math>th order convex functions</i> .....	91
J.-P. Rosay, <i>Un exemple d'ouvert borné de <math>C^3</math> "taut" mais non hyperbolique complet</i> .....	153
R. Smucker, <i>Quasidiagonal weighted shifts</i> .....	173
H. M. Srivastava, <i>Some biorthogonal polynomials suggested by the Laguerre polynomials</i> .....	235

### D — GEOMETRY

R. Schlaefly, <i>Universal connection: The local problem</i> .....	157
--	-----

### G — TOPOLOGY

J. R. Boone, <i>A note on linearly ordered net spaces</i> .....	25
A. Dow and O. Förster, <i>Absolute <math>C^*</math>-embedding of <math>F</math>-spaces</i> .....	63
J. Girolo, <i>Approximating compact sets in normed linear spaces</i> .....	81
E. Michael, <i>On maps related to <math>\sigma</math>-locally finite and <math>\sigma</math>-discrete collections of sets</i> .....	139

### H — COMBINATORICS

J. Sørensen, <i>Symmetric shift registers, Part 2</i> .....	203
---	-----

Our subject classifications are: A — ALGEBRA AND NUMBER THEORY; B — ANALYSIS;  
C — APPLIED MATHEMATICS; D — GEOMETRY; E — LOGIC AND FOUNDATIONS;  
F — PROBABILITY AND STATISTICS; G — TOPOLOGY; H — COMBINATORICS