## THE JOURNAL of

## THE AUSTRALIAN MATHEMATICAL SOCIETY

## VOLUME VI - PART 4

## NOVEMBER 1966

L. J. Gleeson Forced motion of a charged particle in a mag- netic field ..... 385
Indar S. Luthar A note on a result of Mahler's ..... 399
H. A. Buchdahl On Rotor calculus, $I$. ..... 402
On Rotor calculus, II ..... 424
Peter Lorimer A note on doubly transitive groups ..... 449
T. K. Sheng Rational polygons ..... 452
F. Cunningham, Jr. Generalization of a theorem of P. D. Finch's on integration of set-functions ..... 460
T. M. Gagen and Z. JankoH. L. Manocha andB. L. SharmaSummation of infinite series.470
Dwight B. Goodner A converse to Lebesgue's dominated convergence theorem ..... 477
J. N. Ward Involutory automorphisms of groups of odd order ..... 480
P. D. Finch On the lattice equivalence of topological spaces ..... 495
I. D. Macdonald Corrigendum: Another law for the 3-metabelian groups. ..... 512

Published for
THE AUSTRALIAN MATHEMATICAL SOCIETY by P. Noordhoff NV - Groningen - The Netherlands

President: H. O. Lancaster (N.S.W.)<br>Vice-Presidents:<br>Treasurer:<br>----<br>B. H. Neumann (A.C.t.)<br>Secretary:<br>C. S. Davis (Queensland)<br>Editor:<br>C. J. F. Upton (Victoria)<br>Assistant Editor:<br>G. B. Preston (Victoria)<br>J. B. Miller (Victoria)<br>Ordinary Members, Second term: A. F. Pillow (Queensland)<br>J. B. Douglas (N.S.W.)<br>G. B. Preston (Victoria)<br>First term: J. H. Michael (S.A.)<br>D. H. Row (Tasmania)<br>H. S. Green (S.A.)

## THE JOURNAL

Editor: G. B. Preston
Associate Editors: R. F. E. Van der Borght,
Selection of papers for publication is made by the Editor with the assistance of the Associate Editors. Manuscripts for publication should be sent either to the Editor or to one of the Associate Editors, at the address:

Journal of the Australian Mathematical Society,
Department of Mathematics,
Monash University,
Clayton, Victoria.
Intending authors are asked to read the section "Preparation of Manuscripts" on the inside back cover of Volume VI, Part 1.

Correspondence concerning papers after their acceptance for publication should be addressed to the Assistant Editor at the same address. Authors of papers printed in the Journal receive 50 off-prints of their papers free; additional off-prints may be ordered at cost. Excessive costs incurred by the Society through corrections or withdrawal of articles may be charged to the authors concerned.
All subscriptions and correspondence connected with accounts should be addressed to the Treasurer of the Society; and all other correspondence (such as orders for the Journal, and correspondence concerning exchanges), should be addressed to the Business Manager, E. T. Steller. The address in both cases is: The Australian Mathematical Society, Department of Mathematics, University of Queensland, St. Lucia S.W.6, Brisbane, Queensland.

Each volume of the Journal consists of four parts. The price per volume, starting with Volume VII, will be $\$ 15$. - Australian.

## RECIPROCITY AGREEMENTS

The Australian Mathematical Society has made Reciprocity Agreements with the American Mathematical Society, the Edinburgh Mathematical Society, the London Mathematical Socie-ty, the Deutsche Mathematiker Vereinigung and the Islenzka Staerdfraedafelagid using the agreement with the American Mathematical Society as a model. Under this agreement, members of these societies not normally resident in Australia may join the Australian Mathematical Society at half the current rates. Such members will not have the right to vote in the Society or have any other financial commitment. They will receive copies of the Journal free.

