PROCEEDINGS

of the

GLASGOW MATHEMATICAL ASSOCIATION

Published with the assistance of the University Court of the University of Glasgow

VOLUME III

JUNE 1957

PART II

CONTENTS

The minimum discriminants of quintic fields: JOHN HUNTER	page 57
Solution of the word problem for certain types of groups II: J. L. BRITTON	page 68
Integrals allied to Airy's integrals: T. M. MACROBERT	page 91
Integration of E-Functions with regard to their parameters: F. M. RAGAB	page 94
A formula of Bateman: L. CARLITZ	page 99
On the growth of the cyclotomic polynomial in the interval (0, 1):	nage 100

OLIVER AND BOYD

EDINBURGH: TWEEDDALE COURT LONDON: 39A WELBECK STREET, W.1

PROCEEDINGS OF THE GLASGOW MATHEMATICAL ASSOCIATION

THE Proceedings are published in Parts and issued twice yearly. Four Parts complete a Volume of approximately 200 pages, and the Title Pages and Index are published in Part 4 of each Volume.

The prepaid subscription for each Volume is Forty Shillings (U.S.A. \$6.00), post free. Single Parts may be supplied at a cost of Ten Shillings and Six Pence each (U.S.A. \$1.50) post free.

Copies may be ordered direct from the publishers or from any bookseller.

Information for Contributors

While the *Proceedings* are intended primarily for Pure Mathematics, papers on Applied Mathematics will also be accepted. Manuscripts from all parts of the world will be welcomed and given careful consideration.

Manuscripts should be prepared so as to conform with the practice in current Numbers of the *Proceedings*, especially with regard to line illustrations, references, tables, and summaries. The name of the author and the date of the receipt of the manuscript will be printed under the title. Text figures must be suitable for line block reproduction, lettered in pencil, numbered, and separated from the text but allocated clearly to sections of the text.

References should be placed at the end of the paper, arranged and numbered according to the order of reference. In the text, reference numbers should be enclosed in square brackets and underlined, to distinguish them from formula numbers, which should be quoted in round brackets. The following particulars should be given, in the order indicated:

for references to books—author, title, edition, place of publication, year of publication, page reference;

for references to articles in periodicals—author, title of article, short title of periodical, series no. (if any), volume no., year, pagination.

A proof is supplied once in galley form, together with an Order Form for offprints. Offprints are supplied free to the number of twenty-five; additional copies, if ordered prior to publication, will be supplied, at cost, at the request of the contributor. Excessive corrections may be charged to the author.

Manuscripts should be sent to:

THE EDITORS
GLASGOW MATHEMATICAL ASSOCIATION
DEPARTMENT OF MATHEMATICS
THE UNIVERSITY, GLASGOW, W. 2