## THE

# MATHEMATICAL GAZETTE

EDITED BY W. J. GREENSTREET, M.A.

WITH THE CO-OPERATION OF F. S. MACAULAY, M.A., D.Sc. PROF. H. W. LLOYD-TANNER, M.A., D.Sc., F.R.S. E. T. WHITTAKER, M.A., F.R.S. W. E. HARTLEY, B.A.

#### LONDON

GEORGE BELL & SONS, PORTUGAL STREET, LINCOLN'S INN AND BOMBAY

Vol. III., No. 52.

JULY, 1905.

1s. 6d. Net.

The Mathematical Gazette is issued in January, March, May, July, October, and December.

Solutions should be sent to W. E. HARTLEY, 6 Benson Street, Cambridge.

All other correspondence concerning the Gazette should be addressed to W. J. GREENSTREET, Marling Endowed School, Stroud, Glos.

Correspondence relative to the Mathematical Association should be addressed to one of the Hon. Secretaries :--C. PENDLEBURY, St. Paul's School, London, W.; H. D. ELLIS, 12 Gloucester Terrace, Hyde Park, W.

Downloaded from https://www.cambridge.org/core. IP address: 3.15.198.90, on 21 Jul 2024 at 22:22:56, subject to the Cambridge Core terms of use, available at https://www.cambridge.org/core/terms. https://doi.org/10.1017/S0025557200242228

If Copies of the Gazette fail to reach a member in consequence of a change of address, of which the Secretaries have not been informed, duplicate copies cannot be supplied, except on payment of 1s. per copy.

### CONTENTS.

PAGE

ON THE DEVELOPMENT OF MATHEMATICAL ANALYSIS AND ITS RELATIONS TO SOME OTHER SCIENCES. IHI. EMILE PICARD,	193
IEXPANSIONS OF TRIGONOMETRICAL FUNCTIONS. IIEXPANSION OF FUNCTIONS IN GENERAL. W. N. ROSEVEARE,	202
CONSTRUCTIONS WITH STRAIGHT-EDGE AND DIVIDERS. R. F. MUIRHEAD,	209
MATHEMATICAL NOTES. C. S. JACKSON, M.A.; H. L. TRACHTENBERG, -	211
REVIEW. C. S. JACKSON, M.A.,	215
Errata,	215
QUERIES, SALE, EXCHANGE, ETC.,	216
Books, etc., Received,	216

Reprint of the Reports of the Mathematical Association Committee on the "Teaching of Elementary Mathematics," viz. Geometry, Algebra, Arithmetic, Mechanics, and Advanced School Mathematics, together with the Regulations and Syllabus for Geometry in the Cambridge Previous Examination. Price 6d. net. Messrs. GEORGE BELL & Sons, Portugal Street, Lincoln's Inn, London.

#### BACK NUMBERS OF THE MATHEMATICAL GAZETTE.

THE change from quarto form was made with No. 7. No. 8 is out of print. A few numbers may be obtained from the Editor at the following prices, post free No. 7, 5s.; Nos. 9–18, 1s. each.

The set of 7, 9-18, 15s.

These are now out of print and very scarce.