

---

# the mathematical gazette

---

A Journal of the Mathematical Association



---

Volume 59: Number 410

DECEMBER 1975

---

G. BELL and SONS LTD., Portugal Street, London WC2A 2HL

£1.55

# THE MATHEMATICAL ASSOCIATION

AN ASSOCIATION OF TEACHERS AND STUDENTS  
OF ELEMENTARY MATHEMATICS

\*

*'I hold every man a debtor to his profession, from the  
which as men of course do seek to receive countenance  
and profit, so ought they of duty to endeavour themselves  
by way of amends to be a help and an ornament there-  
unto.'*

BACON

## PRESIDENT

Professor R. L. Goodstein, PH.D., D.LIT.

## VICE-PRESIDENTS

Mr. B. T. Bellis	Prof. Sir James Lighthill, F.R.S.
Dr. I. W. Busbridge	Mr. E. H. Lockwood
Mr. J. T. Combridge	Mr. H. V. Lowry
Mrs. W. A. Combridge	Prof. W. H. McCrea, F.R.S.
Mr. C. T. Daltry	Dr. E. A. Maxwell
Mr. B. J. F. Dorrrington	Mr. J. B. Morgan
Dr. W. L. Ferrar	Prof. M. H. A. Newman, F.R.S.
Mrs. M. Hayman	Dr. M. E. Rayner
Mr. F. W. Kellaway	Mr. A. W. Riley
Dr. E. Kerr	Miss R. K. Tobias
Mr. W. J. Langford	Mrs. E. M. Williams

## HONORARY TREASURER

Mr. M. Bridger

## HONORARY ASSISTANT TREASURER

Mr. D. H. Halfpenny

## HONORARY SECRETARIES

Miss N. L. Squire      Dr. A. G. Howson

## HONORARY ASSISTANT SECRETARIES

Miss E. Evans, Miss J. Walley, Mr. F. A. Wood

## THE TEACHING COMMITTEE

Chairman, Mr. J. W. Hersee

Honorary Secretary, Miss M. Walmsley

Department of Mathematics, The University, Leicester LE1 7RH

## HONORARY LIBRARIAN

Prof. R. L. Goodstein

## EDITORIAL BOARD

Mr. D. A. Quadling, Editor-in-Chief

Mr. P. Reynolds (Editor, *Mathematics in School*), Mr. W. A. Dodd  
(Editor of the Newsletter), Dr. A. G. Howson

Editorial and Advertising correspondence relating to *The Mathematical Gazette* should be addressed as on the inside back cover.