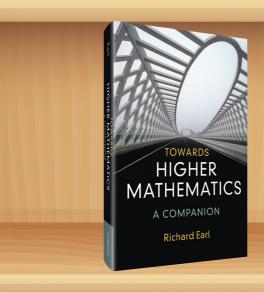
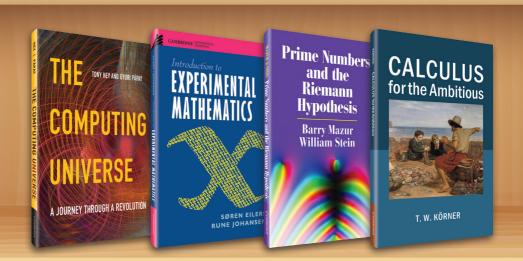
CAMBRIDGE

Fill your bookshelf with Cambridge University Press







Find these titles and more at www.cambridge.org/cambridgemaths

CAMBRIDGE UNIVERSITY PRESS

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 thereunto.'

BACON

THE COUNCIL

PRESIDENT

Mr Tom Roper

IMMEDIATE PAST PRESIDENT Dr Jennie Golding
PRESIDENT DESIGNATE Professor Mike Askew
CHAIR OF COUNCIL Mr Peter Ransom
SECRETARY Dr Chris Pritchard
TREASURER Mr David Miles

REPRESENTATIVES BRANCHES Mr Keith Cadman (Chair)
OF COMMITTEES CONFERENCES Miss Cherri Moseley (Chair)

PROFESSIONAL DEVELOPMENT Mrs Julia Brown
PUBLICITY & MEDIA Mrs Jo Morgan (Acting-chair)
PUBLICATIONS Mr Michael Fox (Chair)
MEMBERSHIP Miss Joyce Brown (Chair)
TEACHING COMMITTEE Mrs Rachael Horsman (Chair)

EDITOR IN CHIEF Mr Bill Richardson

MEMBERS Mrs Elizabeth Glaister Mrs Cordelia Myers
WITHOUT Dr Ray Huntley Dr David Pountney
OFFICE Dr Gerry Leversha Mr Rob Smith

Mr Barry Lewis

SENIOR ADMINISTRATOR Ms Marcia Murray

EDITORIAL COMMITTEE OF THE MATHEMATICAL GAZETTE

Editor Dr Gerry Leversha

Production Editor Mr Bill Richardson
Reviews Editor Mr Owen Toller

Problems Editors Mr Nick Lord, Dr Stan Dolan

Assistant Editors Mr Tom Roper, Mr Colin Davis, Mr Michael Fox,

Dr Andrew Jobbings, Professor Adam McBride

CONTENTS

Articles

Is it mathematics or is it school mathematics?	Jennie Golding	385
Further characterisations of tangential quadrilaterals	Martin Josefsson	401
Solving multivariate optimisation problems using inequalities	Stephen Kaczkowski	412
Approaching quadratic equations from a right angle	King-Shun Leung	424
Closed form expressions for two harmonic continued fractions	Martin Bunder and Joseph Tonien	439
Thoughts on a conjecture of Erdős	Stan Dolan	449
Non-Desarguesian planes and weak associativity	R. P. Burn	458
Notes 101.26 to 101.47		
Primes of the form $x^2 + z^2$	Stan Dolan	465
On the convention that $deg(0) = -\infty$	Mowaffaq Hajja	465
The versatile exponential inequality $e^x \ge 1 + x$	Nick Lord	470
Sums of square roots	Kantaphon Kuhapatanakul and Pongpol Ruankong	476
A few remarks concerning a class of infinite sums	Bill Brading	480
On series for the Euler constant	J. A. Scott	486
Yet another Cantor series	J. A. Scott	488
The application of the Weierstrass approximation theorem in the Riemann-Lebesgue lemma	Suman Pal and Baptiste Goujaud	489
The area of a quadrilateral	A. F. Beardon	493
Some properties of the Kepler triangle	Jun Li	494
On the area of a tangential quadrilateral	Martin Josefsson	495
Proof Without Words: The birth of a square (or two)	B. Grivoyannis and R. Viglione	497