Index to Volume 101
Numbers 550 to 552
2017

This document is essentially the same as the paper Index to Volume 101 but it contains the appropriate DOI with its hyper-link to the *Gazette* archive. A click on the hyper-link should take you to the archive. However, to progress beyond a brief introduction requires you to have online access and this can be either personal or institutional.

Articles

AUTHOR(S)	TITLE	PAGES	DOI
Stephen Andrilli	Some strategies for teaching a course based on Gödel, Escher, Bach	50-59	10.1017/mag.2017.5
Ioulia N. Baoulina, Martin Kreh, Jörn Steuding	Deleting digits	60-68	10.1017/mag.2017.6
Stephan Berendonk	Double generating spirographic curves	27-37	10.1017/mag.2017.3
Martin Bunder and Joseph Tonien	Closed form expressions for two harmonic continued fractions	439-448	10.1017/mag.2017.125
Heidi Burgiel and Mahmoud El-Hashash	Open questions on Tantrix graphs	83-89	10.1017/mag.2017.8
R. P. Burn	Non-Desarguesian planes and weak associativity	458-464	10.1017/mag.2017.127
Tony Crilly	How to play the triangle game	1 - 10	10.1017/mag.2017.1
Stan Dolan	Lyness cycles	193-207	10.1017/mag.2017.59
Stan Dolan	Thoughts on a conjecture of Erdős	449-457	10.1017/mag.2017.126
Jennie Golding	Is it mathematics or is it school mathematics?	385-400	10.1017/mag.2017.120
Christopher D. Hollings	R. S. Ball's *Mechanics*: bringing Newton to the masses?	280-288	10.1017/mag.2017.68
Jonathan Hoseana	Integration based on the parametrisation of conics	261-267	10.1017/mag.2017.65
Graham Jameson and Nick Lord	Integrals evaluated in terms of Catalan's constant	38-49	10.1017/mag.2017.4
G. J. O. Jameson	Expressing harmonic sums as fractions	236-249	10.1017/mag.2017.63
Martin Josefsson	Generalisation of a quadrilateral duality theorem	208-213	10.1017/mag.2017.60
Martin Josefsson	Properties of bisect-diagonal quadrilaterals	214-226	10.1017/mag.2017.61
Martin Josefsson	Further characterisations of tangential quadrilaterals	401-411	10.1017/mag.2017.122
Stephen Kaczkowski	Solving multivariate optimisation problems using inequalities	412–423	10.1017/mag.2017.123
Jeehoon Kang	Brilliance or steadiness?	250-260	10.1017/mag.2017.64
King-Shun Leung	Approaching quadratic equations from a right angle	424-438	10.1017/mag.2017.124
Paul Levrie and Amrik Singh Nimbran	Recycling Stirling's series acceleration technique	69-82	10.1017/mag.2017.7
John R. Silvester	Extremal area ellipses of a convex quadrilateral	11-26	10.1017/mag.2017.2
Seán M. Stewart	Some alternative derivations of Craig's formula	268-279	10.1017/mag.2017.66
David Treeby	Finding sums of powers using physical arguments	227-235	10.1017/mag.2017.62

Feedback

March	Sergiy Koshkin; Peter Shiu; Paul Stephenson; Lienhard Wimmer	146-149	10.1017/mag.2017.25
July	Ioulia N. Baoulina, Martin Kreh, Jörn Steuding (jointly)	337-338	10.1017/mag.2017.85
November	GCHQ Problem Solving Group; Graham Jameson (2); Martin Josefsson; Bob Pawula	542-545	10.1017/mag.2017.152

Notes

AUTHOR(S)	NO.	TITLE	PAGES	DOI
Marcos Alvarez	101.41	On conics	511-515	10.1017/mag.2017.143

Roy Barbara	101.01	Fermat's last theorem for $n = 3$ revisited	90-93	10.1017/mag.2017.9
A. F. Beardon	101.34	The area of a quadrilateral	492-494	10.1017/mag.2017.136
A. F. Beardon	101.03	Products of 3×3 magic matrices	96-98	10.1017/mag.2017.11
Bill Brading	101.30	A few remarks concerning a class of infinite sums	480-485	10.1017/mag.2017.132
J. M. Chick	101.39	Another angle on angle?	502-508	10.1017/mag.2017.141
Stan Dolan	102.26	Primes of the form $x^2 + z^2$	465-465	10.1017/mag.2017.128
Martin Griffiths	101.25	A note on tilings and associated linear recurrences	314-318	10.1017/mag.2017.79
Martin Griffiths	101.44	On a trivariate Fibonacci identity	519-522	10.1017/mag.2017.146
B. Grivoyannis and R. Viglione	101.37	Proof Without Words: The birth of a square (or two)	497-498	10.1017/mag.2017.139
Mowaffaq Hajja	101.11	An application of a morsel of Honsberger	123-125	10.1017/mag.2017.19
Mowaffaq Hajja	101.12	The sum of the squared lengths of equally-spaced cevians	126-128	10.1017/mag.2017.20
Mowaffaq Hajja	101.22	The hyperbolic version of the Steiner-Lehmus theorem	306-307	10.1017/mag.2017.76
Mowaffaq Hajja	101.23	One more note on the extremal properties of the incentre and the excentres of a triangle	308-310	10.1017/mag.2017.77
Mowaffaq Hajja	101.27	On the convention that $\deg(0) = -\infty$	465-470	10.1017/mag.2017.129
Mowaffaq Hajja and Edris Rawashdeh	101.47	Notes on Lagrange's interpolation	528-533	10.1017/mag.2017.149
Graham Jameson and Nicholas Jameson	101.17	Goats and birds	296-300	10.1017/mag.2017.71
Martin Josefsson	101.36	On the area of a tangential quadrilateral	495-497	10.1017/mag.2017.138
Martin Josefsson	101.38	Metric relations in crossed cyclic quadrilaterals	499-502	10.1017/mag.2017.140
Christoph Kirfel and Rainer Kaenders	101.05	Integration by symmetry	99-103	10.1017/mag.2017.13
Reginald Koo	101.14	The direction of limiting friction	130-135	10.1017/mag.2017.22
Kantaphon Kuhapatanakul and Pongpol Ruankong	101.29	Sums of square roots	476-480	10.1017/mag.2017.131
Jun Li	101.35	Some properties of the Kepler triangle	494-495	10.1017/mag.2017.137
Nick Lord	101.04	An unexpected appearance of the golden ratio	98-99	10.1017/mag.2017.12
Nick Lord	101.16	When does $n!$ have n digits?	293-296	10.1017/mag.2017.70
Nick Lord	101.28	The versatile exponential inequality $e^x \geqslant 1 + x$	470-475	10.1017/mag.2017.130
Martin Lukarevski	101.10	Exradii of the triangle and Euler's Inequality	123-123	10.1017/mag.2017.18
Peter R. Mercer	101.07	Cauchy's mean value theorem meets the logarithmic mean	108-115	10.1017/mag.2017.15
John Molokach	101.20	A natural occurrence of the Golden Ratio	303-303	10.1017/mag.2017.74
R. V. W. Murphy	101.46	Improved simple pendulum results	525-528	10.1017/mag.2017.148
Grégoire Nicollier	101.21	A homothetic property of orthic triangles	303-306	10.1017/mag.2017.75
Suman Pal and Baptiste Goujaud	101.33	The application of the Weierstrass approximation theorem in the Riemann-Lebesgue lemma	489-492	10.1017/mag.2017.135
Zoltan Retkes	101.24	Generalisation and sharpening of Problem 100.C	310-313	10.1017/mag.2017.78
Yannick Saouter	101.02	A (doubly) elementary formula for prime numbers	93-95	10.1017/mag.2017.10
J. A. Scott	101.13	The Lester circle once again	129-130	10.1017/mag.2017.21
J. A. Scott	101.31	On series for the Euler constant	486-488	10.1017/mag.2017.133
J. A. Scott	101.32	Yet another Cantor series	488-489	10.1017/mag.2017.134
J. A. Scott	101.42	The Steiner point revisited	515-516	10.1017/mag.2017.144
J. A. Scott	101.43	On the least distance from a point to a line	517-519	10.1017/mag.2017.145
Yehao Shi and Ling Lin	101.09	A generalisation of Nesbitt inequality	122-122	10.1017/mag.2017.17
Paul Stephenson	101.18	Proof without words: relationship between inverse cotangents	300-300	10.1017/mag.2017.72

Paul Stephenson	101.40	Dandelin circles	508-511	[10.1017/mag.2017.142](10.1017/mag.2017.142)
Seán M. Stewart	101.06	Finding some integrals using an interesting self-similar substitution	103-108	[10.1017/mag.2017.14](10.1017/mag.2017.14)
Mieczysław Szyszkowicz	101.19	Approximate quadrature of the circle using a set square	301-302	[10.1017/mag.2017.73](10.1017/mag.2017.73)
Joseph Tonien	101.08	A continued fraction inspired by an identity of Euler	115-121	[10.1017/mag.2017.16](10.1017/mag.2017.16)
Bridget M. Torsey	101.45	A note on bounds for the expected value of a random variable	522-525	[10.1017/mag.2017.147](10.1017/mag.2017.147)
Robert A. Wilson	101.15	An elementary proof that not all principal ideal domains are Euclidean domains	289-293	[10.1017/mag.2017.69](10.1017/mag.2017.69)

Teaching Notes

AUTHOR	TITLE	PAGES	DOI
Martin Celli	Studying $\dfrac{A}{x+B} + \dfrac{C}{x+D}$ without derivatives	319-321	[10.1017/mag.2017.80](10.1017/mag.2017.80)
M. G. Elliott	Projectiles from circular motion	136-141	[10.1017/mag.2017.23](10.1017/mag.2017.23)
Jonathan Hoseana	Extending the substitution method for integration	538-541	[10.1017/mag.2017.151](10.1017/mag.2017.151)
Nick Lord	Using A4-sized paper to illustrate that $\sqrt{2}$ is irrational	142-145	[10.1017/mag.2017.24](10.1017/mag.2017.24)
Nick Lord	An area conundrum	325-327	[10.1017/mag.2017.82](10.1017/mag.2017.82)
Nick Lord	The volume of a cone for pre-calculus students	534-537	[10.1017/mag.2017.150](10.1017/mag.2017.150)
Paul Stephenson	Pappus in two dimensions, Mamikon in three	322-325	[10.1017/mag.2017.81](10.1017/mag.2017.81)
Paul Stephenson	Trigonometric identities from regular polygons	327-334	[10.1017/mag.2017.83](10.1017/mag.2017.83)

An appreciation

Graham T. Q. Hoare	Maryam Mirzakhani	545-546	[10.1017/mag.2017.152](10.1017/mag.2017.152)
Gazette Team	Centenary of the birth of Bill Tutte	279	[10.1017/mag.2017.67](10.1017/mag.2017.67)

Correspondence

David Hopkins	*Our Mathematical World*	335-336	[10.1017/mag.2017.84](10.1017/mag.2017.84)
Martin Perkins	A4 paper	335-335	[10.1017/mag.2017.84](10.1017/mag.2017.84)

Reviews

AUTHOR	TITLE	REVIEWER	PAGES	DOI
Mohammed Aassila	1000 challenges mathématiques, algèbre	*Dominic Yeo*	381–382	[10.1017/mag.2017.115](10.1017/mag.2017.115)
Mohammed Aassila	1000 challenges mathématiques, analyse	*Dominic Yeo*	381–382	[10.1017/mag.2017.115](10.1017/mag.2017.115)
Jin Akiyama and Kiyoko Matsunaga	Treks into intuitive geometry: the world of polygons and polyhedra	*Michael Fox*	565-568	[10.1017/mag.2017.164](10.1017/mag.2017.164)
Zvi Artstein	Mathematics and the real world	*Gerry Leversha*	356-357	[10.1017/mag.2017.95](10.1017/mag.2017.95)
Avner Ash and Robert Gross	Summing it up: from one plus one to modern number theory	*Owen Toller*	174-175	[10.1017/mag.2017.40](10.1017/mag.2017.40)
Avner Ash and Robert Gross	Summing it up: from one plus one to modern number theory	*Peter Shiu*	363-365	[10.1017/mag.2017.101](10.1017/mag.2017.101)
Barnaby Sheppard	The logic of infinity	*Robert Leek*	184-185	[10.1017/mag.2017.47](10.1017/mag.2017.47)
Hari Bercovici, Arlen Brown and Carl Pearcy	Measure and integration	*John Baylis*	358-359	[10.1017/mag.2017.97](10.1017/mag.2017.97)
Norman Biggs	Quite right: the story of mathematics, measurement and money	*Peter Giblin*	557-558	[10.1017/mag.2017.157](10.1017/mag.2017.157)
Peter Bürgisser and Felipe Cucker	Condition: The geometry of numerical algorithms	*S. C. Coutinho*	179-181	[10.1017/mag.2017.43](10.1017/mag.2017.43)
Ronald S. Calinger	Leonhard Euler, mathematical genius in the Enlightenment	*Graham Hoare*	165-166	[10.1017/mag.2017.32](10.1017/mag.2017.32)
Michael Suk-Young Chwe	Jane Austen, game theorist (updated edition)	*Bernhard Von Stengel*	172-172	[10.1017/mag.2017.38](10.1017/mag.2017.38)
Tim Chartier	Math bytes	*Vincent Ting*	558-559	[10.1017/mag.2017.158](10.1017/mag.2017.158)

Kung Ching Chang (translated by Tan Zhang)	Lecture notes on calculus of variations	*Peter Shiu*	568-569	[10.1017/mag.2017.165](10.1017/mag.2017.165)
Leo Corry	A brief history of numbers	*P. N. Ruane*	357-358	[10.1017/mag.2017.96](10.1017/mag.2017.96)
Elizabeth De Freitas and Nathalie Sinclair	Mathematics and the body: material entanglements in the classroom	*Graham Storr*	160-160	[10.1017/mag.2017.28](10.1017/mag.2017.28)
Roger Delbourgo	Trigonometry: notes, problems and exercises	*Gerry Leversha*	563-565	[10.1017/mag.2017.163](10.1017/mag.2017.163)
Keith Devlin	Finding Fibonacci	*Owen Toller*	569-570	[10.1017/mag.2017.166](10.1017/mag.2017.166)
A. di Pasquale, N. Do and D. Mathews	Problem solving tactics	*Gerry Leversha*	186-187	[10.1017/mag.2017.49](10.1017/mag.2017.49)
Frank A. Farris	Creating symmetry: the artful mathematics of wallpaper patterns	*Gerry Leversha*	560-561	[10.1017/mag.2017.160](10.1017/mag.2017.160)
José Ferreirós	Mathematical knowledge and the interplay of practices	*Michael de Villiers*	361-362	[10.1017/mag.2017.99](10.1017/mag.2017.99)
Alan Frieze and Michał Karoňski	Introduction to random graphs	*David Bevan*	376-377	[10.1017/mag.2017.110](10.1017/mag.2017.110)
Jenny Gage and David Speigelhalter	Teaching probability	*Owen Toller*	183-184	[10.1017/mag.2017.46](10.1017/mag.2017.46)
Tunc Geveci	Advanced calculus of a single variable	*John Baylis*	367-368	[10.1017/mag.2017.104](10.1017/mag.2017.104)
Prakash Gorroochurn	Classic topics on the history of modern mathematical statistics	*John Haigh*	378-379	[10.1017/mag.2017.112](10.1017/mag.2017.112)
Raffi Grinberg	The real analysis lifesaver	*Dominic Yeo*	561-562	[10.1017/mag.2017.161](10.1017/mag.2017.161)
Radhey S. Gupta	Elements of numerical analysis (2nd edn.)	*S. C. Coutinho*	189-189	[10.1017/mag.2017.51](10.1017/mag.2017.51)
Brian C. Hall	Lie groups, Lie algebras and representations	*Mark Hunacek*	369-371	[10.1017/mag.2017.106](10.1017/mag.2017.106)
Dick Hess	The population explosion and other puzzles	*Peter Giblin*	380-381	[10.1017/mag.2017.114](10.1017/mag.2017.114)
Nicholas J. Higham (ed.)	The Princeton companion to applied mathematics	*Mark Hunacek*	169-170	[10.1017/mag.2017.36](10.1017/mag.2017.36)
Annette Imhausen	Mathematics in ancient Egypt, a contextual history	*Kevin Davis*	163-165	[10.1017/mag.2017.31](10.1017/mag.2017.31)
Maitree Inprasitha et al (eds)	Lesson study, challenges in mathematics education	*Peter Hall*	160-161	[10.1017/mag.2017.29](10.1017/mag.2017.29)
Matthew Inglis and Nina Attridge	Does mathematical study develop logical thinking?	*Peter Hall*	349-349	[10.1017/mag.2017.89](10.1017/mag.2017.89)
Niels Jacob and Kristian P. Evans	A course in analysis	*Mark Hunacek*	175-177	[10.1017/mag.2017.41](10.1017/mag.2017.41)
Jürgen Jost	Mathematical concepts	*Mark Hunacek*	365-366	[10.1017/mag.2017.102](10.1017/mag.2017.102)
Victor J. Katz et al (eds)	Sourcebook in the mathematics of medieval Europe and North Africa	*Tony Crilly*	359-361	[10.1017/mag.2017.98](10.1017/mag.2017.98)
Margaret J. Kenney and Stanley J. Bezuszka	Number treasury[3]: investigations, facts and conjectures about more than 100 number families (3rd edn.)	*Martin Griffiths*	348-349	[10.1017/mag.2017.88](10.1017/mag.2017.88)
Donald Keedwell and Jósef Dénes	Latin squares and their applications (2nd edn.)	*Peter Giblin*	571-573	[10.1017/mag.2017.168](10.1017/mag.2017.168)
Richard Kohar	Basic discrete mathematics	*Owen Toller*	375-376	[10.1017/mag.2017.109](10.1017/mag.2017.109)
Mary Ledwick	Higher and foundation GCSE mathematics revision cards	*Peter Hall*	350-351	[10.1017/mag.2017.91](10.1017/mag.2017.91)
David Linker and Alan Sultan	Problem-solving challenges for secondary school students and above	*Dominic Yeo*	379-380	[10.1017/mag.2017.113](10.1017/mag.2017.113)
Robert Matthews	Chancing it	*Owen Toller*	181-182	[10.1017/mag.2017.44](10.1017/mag.2017.44)
Joseph Mazur	Fluke, the math and myth of coincidence	*Owen Toller*	570-571	[10.1017/mag.2017.167](10.1017/mag.2017.167)
Ken Ono and Amir D. Aczel	My search for Ramanujan	*Owen Toller*	355-356	[10.1017/mag.2017.94](10.1017/mag.2017.94)
Owen O'Shea	The call of the primes	*Nick Lord*	173-174	[10.1017/mag.2017.39](10.1017/mag.2017.39)

Victor M. Panaretos	Statistics for mathematicians	*John Haigh*	573-574	[10.1017/mag.2017.169](10.1017/mag.2017.169)
Mircea Pitici (ed)	The best writing on mathematics 2015	*Gerry Leversha*	362-363	[10.1017/mag.2017.100](10.1017/mag.2017.100)
Alfred S. Posamentier and Robert Geretschläger	The circle; mathematical exploration beyond the line	*Gerry Leversha*	373-375	[10.1017/mag.2017.108](10.1017/mag.2017.108)
A. S. Posamentier and S. Krulik	Problem-solving strategies in mathematics	*Nick Lord*	187-188	[10.1017/mag.2017.50](10.1017/mag.2017.50)
Alfred S. Posamentier and Stephen Krulik	Strategy games to enhance problem-solving ability in mathematics	*Peter Hall*	383-383	[10.1017/mag.2017.116](10.1017/mag.2017.116)
Catherine Quinn et al	Mathematics HL: Calculus	*Roger Patterson*	351-353	[10.1017/mag.2017.92](10.1017/mag.2017.92)
Catherine Quinn et al	Mathematics HL:Discrete mathematics	*Roger Patterson*	351-353	[10.1017/mag.2017.92](10.1017/mag.2017.92)
Catherine Quinn et al	Mathematics HL: Linear algebra & geometry	*Roger Patterson*	351-353	[10.1017/mag.2017.92](10.1017/mag.2017.92)
Catherine Quinn et al	Mathematics HL: Sets, relations & groups	*Roger Patterson*	351-353	[10.1017/mag.2017.92](10.1017/mag.2017.92)
Catherine Quinn et al	Mathematics HL:Statistics & probability	*Roger Patterson*	351-353	[10.1017/mag.2017.92](10.1017/mag.2017.92)
Paulo Ribenboim	Prime numbers, friends who give problems, a trialogue with Papa Paulo	*Peter MacGregor*	559-560	[10.1017/mag.2017.159](10.1017/mag.2017.159)
J. F. Riley	All is change	*Will Hornby*	556-556	[10.1017/mag.2017.156](10.1017/mag.2017.156)
Gareth E. Roberts	From music to mathematics	*Owen Toller*	170-171	[10.1017/mag.2017.37](10.1017/mag.2017.37)
Siobhan Roberts	Genius at play: the curious mind of John Horton Conway	*Martin Griffiths*	167-168	[10.1017/mag.2017.34](10.1017/mag.2017.34)
Amol Sasane	Plain plane geometry	*Gerry Leversha*	372-373	[10.1017/mag.2017.107](10.1017/mag.2017.107)
Amy Shell-Gellasch and J. B. Thoo	Algebra in context	*John Baylis*	177-179	[10.1017/mag.2017.42](10.1017/mag.2017.42)
Richard P. Stanley	Catalan numbers	*Gerry Leversha*	377-378	[10.1017/mag.2017.111](10.1017/mag.2017.111)
James D. Stein	L.A.Math	*Owen Toller*	168-169	[10.1017/mag.2017.35](10.1017/mag.2017.35)
Ian Stewart and David Tall	The foundations of mathematics (2nd edn.)	*Graham Storr*	185-186	[10.1017/mag.2017.48](10.1017/mag.2017.48)
Stephen M. Stigler	The seven pillars of statistical wisdom	*Owen Toller*	182-183	[10.1017/mag.2017.45](10.1017/mag.2017.45)
John Stillwell	Elements of mathematics: from Euclid to Gödel	*Nick Lord*	353-355	[10.1017/mag.2017.93](10.1017/mag.2017.93)
Yong Su and Bin Xiong	Methods and techniques for proving inequalities	*Dominic Yeo*	366-367	[10.1017/mag.2017.103](10.1017/mag.2017.103)
Gabriel J. Stylianides	Curricular resources for classroom use: the case of mathematics	*Ray Huntley*	350-350	[10.1017/mag.2017.90](10.1017/mag.2017.90)
Kristopher Tapp	Matrix groups for undergraduates (2nd edn.)	*Mark Hunacek*	368-369	[10.1017/mag.2017.105](10.1017/mag.2017.105)
Bruce R. Vogeli (ed.)	Special secondary schools for the mathematically talented: an international panorama	*Gerry Leversha*	161-162	[10.1017/mag.2017.30](10.1017/mag.2017.30)
Jason Wilkes	Burn math class	*Owen Toller*	555-556	[10.1017/mag.2017.155](10.1017/mag.2017.155)
Desheng Yang (trans. by Chunhui Shen)	Trigonometric functions and complex numbers	*John Baylis*	562-563	[10.1017/mag.2017.162](10.1017/mag.2017.162)

Student Problems

Statements of	Solutions of	Issue	DOI
2016.5 and 2016.6		**100** pp. 539	[10.1017/mag.2016.129](10.1017/mag.2016.129)
2017.1 and 2017.2	2016.5 and 2016.6	**101** pp.157-159	[10.1017/mag.2017.27](10.1017/mag.2017.27)
2017.3 and 2017.4	2017.1 and 2017.2	**101** pp. 344-347	[10.1017/mag.2017.87](10.1017/mag.2017.87)
2017.5 and 2017.6	2017.3 and 2017.4	**101** pp. 552-544	[10.1017/mag.2017.154](10.1017/mag.2017.154)
	2017.5 and 2017.6	**102**	

Problem Corner

Statements of	Solutions of	Issue	DOI

100 E, F, G, H		**100** pp. 356-363	10.1017/mag.2016.82
100 I, J, K, L		**100** pp. 533-538	10.1017/mag.2016.129
101 A, B, C, D	**100** E, F, G, H	**101** pp. 150-156	10.1017/mag.2017.26
101 E, F, G, H	**100** I, J, K, L	**101** pp. 339-343	10.1017/mag.2017.86
101 I, J, K, L	**101** A, B, C, D	**101** pp. 547-551	10.1017/mag.2017.153
	101 E, F, G, H	**102** pp. 174-181	10.1017/mag.2017.35
	101 I, J, K, L	**102**	