

1970-2018 TOPIC INDEX
for
The College Mathematics Journal
(including the *Two Year College Mathematics Journal*)

prepared by
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Each item in this index is listed under the topics for which it might be used in the classroom or for enrichment after the topic has been presented. Within each topic entries are listed in chronological order of publication. Each entry is given in the form:

Title, author, volume:issue, year, page range, [C or F], [other topic cross-listings]

where C indicates a classroom capsule or short note and F indicates a Fallacies, Flaws and Flimflam note. If there is nothing in this position the entry refers to an article unless it is a book review.

The topic headings in this index are numbered and grouped as follows:

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 - 4.7 Other topics in linear algebra
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- 5 Calculus
 - 5.1 Limits and differentiation
 - 5.1.1 Limits (including l'Hopital's rule)
 - 5.1.2 The derivative and mean value theorems
 - 5.1.3 Tangents, differentials, and differentiation
 - 5.1.4 Maxima and minima
 - 5.1.5 Graphs of functions
 - 5.2 Integration
 - 5.2.1 Definition of integrals and the fundamental theorem
 - 5.2.2 Numerical integration
 - 5.2.3 Change of variable (substitution)
 - 5.2.4 Partial fraction decomposition
 - 5.2.5 Integration by parts
 - 5.2.6 Area
 - 5.2.7 Volume
 - 5.2.8 Arc length
 - 5.2.9 Other theory and applications of integration
 - 5.2.10 Improper integrals
 - 5.3 Elementary and special functions
 - 5.3.1 Inverse trigonometric functions
 - 5.3.2 Exponential and logarithmic functions
 - 5.3.3 Hyperbolic functions and their inverses
 - 5.3.4 Special functions
 - 5.4 Sequences and series
 - 5.4.1 Sequences
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 - 5.5 Vector algebra and geometry (and 3x3 determinants)

 - 5.6 Curves and surfaces

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- 5.8 Software for calculus
- 6 Differential Equations and Dynamical Systems
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 - 6.2 Higher order linear equations and linear systems
 - 6.3 Difference equations, dynamical systems, and fractals
 - 6.4 Nonlinear differential equations
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 - 6.7 Software for differential equations and dynamical systems
- 7 Probability and Statistics
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- 8 Computer Science
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 - 9.5 Analysis
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 - 9.7 Modern and non-Euclidean geometry
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0 Precalculus Mathematics (also see 9)

0.1 Arithmetic (also see 9.3)

- Remedial or Developmental? Confusion over Terms, Don Ross, 1:2, 1970, 27-31, 1.2
Two-Pan Weighings, Chris Burditt, 3:2, 1972, 80-81, C
Cyclically Permuted Code: A Variation on Binary Arithmetic, J. Maurice Kingston, 5:1, 1974, 29-36
Computation of Repeating Decimals, James E. McKenna, 7:2, 1976, 55-58
Smith Numbers, A. Wilansky, 13:1, 1982, 21, 9.3
Cryptology: From Ceasar Ciphers to Public-Key Cryptosystems, Dennis Luciano and Gordon Prichett, 18:1, 1987, 2-17, 7.2, 9.3
What's Significant about a Digit?, David A. Smith, 20:2, 1989, 136-139, C, 9.6
FFF #85. Unto Everyone That Hath Shall Be Given, John W. Kenelly, 26:1, 1995, 36, F
Number Words in English, Steven Schwartzman, 26:3, 1995, 191-195
The Mathematical Judge: A Fable, William G. Frederick and James R. Hersberger, 26:5, 1995, 377-381, 1.1
The Square of Any Odd Number is the Difference Between Two Triangular Numbers (Proof Without Words), Roger B. Nelsen, 27:2, 1996, 118, C, 9.3
Fractions with Cycling Digit Patterns, Dan Kalman, 27:2, 1996, 109-115, 9.3
FFF #112. United in Purpose, Bruce Yoshiwara, 28:2, 1997, 119, F
FFF #121. A Case of Black and White - But Not So Much Black, Peter Rosenthal, 28:5, 1997, 377, F
FFF #125. Effects of Changing Temperature, Dave Trautman, 29:1, 1998, 35, F
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FFF #138. Fifty per cent more for fifty per cent less, Norton Starr, 30:1, 1999, 39-40, F
Interval Arithmetic and Analysis, James Case, 30:2, 1999, 106-111, 9.5
FFF #140. Whose Real World?, Elizabeth Berman Appelbaum, 30:2, 1999, 130, F
FFF #144. Spoiled for Choice, Norton Starr, 30:3, 1999, 210, F, 3.2
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FFF #167. Double from nothing, Richard Askey, 32:1, 2001, 48, F
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Word Problems, Lawrence Braden, 32:1, 2001, 70-71, C
Miscellanea: The Doctor and the Mathematician, Edwin Rosenberg, 32:4, 2001, 318, C
Powers Made Easy, James Kirby, 32:5, 2001, 329, C, 9.3
FFF #191. Syllabus Innumeracy and the Easy A, Charles Redmond, 33:2, 2002, 138-139, F
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Musharraf Exposed, Margaux Marie Siegel, 33:3, 2002, 229, C
Introducing Binary and Ternary Codes via Weighings, James Tanton, 33:4, 2002, 313-314, C, 3.2
Adding Fractions, Dan Kalman, 34:1, 2003, 41, C, 5.1.2
A large square consisting only of digits 7, 8 and 9, Hisanori Mishima, 34:4, 2003, 303, C, 9.3
FFF #219. A faulty test question, Joseph G. R. Martinez, 35:1, 2004, 41-42, F
A Generalized Magic Trick from Fibonacci: Designer Decimals, Mrjorie Bicknell-Johnson, 35:2, 2004, 125-126, C, 9.5
Linearizing Mile Run Times, Garrett I. Ash, J. Marshall Ash, and Stefan Catoiu, 35:5, 2004, 370-374, 9.2
FFF #231. Solar Power, Ed Dubinsky, 36:1, 2005, 49-50, F

How Many Checks?, Ted Ridgway, 36:2, 2005, 113, C

FFF #234. A multiplicity of multiplications, Hyman Bass, 36:2, 2005, 141, F (see also Shirley B. Gray, 37:3, 2006, 214-215, F and Yves Nievergelt, 39:2, 2008, 137-138, F)

Federal Money, Joseph Cruikshank, 36:3, 2005, 208, C

FFF #242. Lighter than air, Marie S. Wilcox, 36:4, 2005, 316-317, F

Wrong, Wrong, and Wrong: Math Guides Are Recalled, *New York Times*, 36:5, 2005, 362, C

Where are the missing “8-terms”?, Johann Hoehn and Larry Hoehn, 37:1, 2006, 68, C

Watch Your Units!, Stan Wagon, 37:2, 2006, C

Teaching Tip: How large is $n!$?, Leonard J. Lipkin, 37:2, 2006, 109, C

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FFF #251. Hot stuff in Canada, Neal Madras, 27:2, 2006, 123, F

FFF #254. Computing the cost of a fence, Johnny Lott and Georgia Cobbs, 37:4, 2006, 291, F

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FFF #262. Attributed to Vladimir Putin, Andre Toom, 38:1, 2007, 44, F

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One-Upmanship in Creating Designer Decimals, James Smoak, 39:3, 2008, 211, C

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Proof Without Words: Powers of Two, James Tanton, 40:2, 2009, 86, C, 5.4.2

Three Poems, Caleb Emmons, 40:3, 2009, 188, 9.2

Family Occasion, Ian Stewart, 40:3, 2009, 203, C

Teaching Tip: Accepting that $.999\dots = 1$, David W. Cohen and James M. Henle, 40:4, 2009, 258, C

Brown Sharpie: $.999\dots = 1$ (Cartoon), Courtney Gibbars, 40:4, 2009, 262, C

Fallacies, Flaws and FlimFlam: What’s *Your* Version of Two-Thirds?, Mary Ann Bragg, 40:5, 2009, 343, C

341 is a Brilliant Number, P. D. James, 40:5, 2009, 368, C, 9.3

Visualizing Elections using Saari Triangles, Mariah Birgen, 41:4, 2010, 325-328, 0.3, 3.3

A Talmudic Fair-Division Problem, Theodore Hill, 41:4, 2010, 338, C, 3.3

A Pumping Lemma for Invalid Reductions of Fractions, Michael N. Fried and Mayer Goldberg, 41:5, 2010, 357-364, 9.3

The Rascal Triangle, Alif Anggoro, Eddy Liu, and Angus Tulloch, 41:5, 2010, 393-395, 3.2

Sum-Difference Numbers, Yixun Shi, 41:5, 2010, 404-405, C, 9.3

Flaws, Fallacies, and Flimflam: Who’s Right?, Fred Graf, Megan McArdle, and Ed Barbeau, 42:1, 2011, 55, C

Flaws, Fallacies, and Flimflam: What Day Is It?, Allen Schwenk, 42:3, 2011, 205, F (see also 5. The International Dateline, 42:5, 2011, 430-431)

Minuend & Subtrahend, Merriam-Webster Dictionary, 42:4, 2011, 316, C

Student Research Project: Making Change Efficiently, Jack E. Graver, 42:4, 2011, 317-322, 3.2, 5.1.4, 9.9

Just Take the Limit!, Jody Picoult, 42:5, 2011, 431, C, 0.8, 9.10

A Numerical Challenge, Robert Wainright, 43:1, 2012, 19, 63, C

Triangular Numbers, Gaussian Integers, and KenKen, John J. Watkins, 43:1, 2012, 37-42, 9.2, 9.3

Carryless Arithmetic Mod 10, David Applegate, Marc LeBrun, and N. J. A. Sloane, 43:1, 2012, 43-50, 5.4.1, 9.2, 9.4

Squaring, Cubing, and Cube Rooting, Arthur T. Benjamin, 43:1, 2012, 58-63, 0.2, 9.2

50 Percent Plus One: Innumeracy or Mendacity?, William J. Polley, 44:3, 2013, 176, C
 Proof Without Words: Triangular Sums, Yuko Kobayashi, 44:3, 2013, 189, C, 9.3
 Zbkowski's Divisibility Criterion, Yonah Cherniavsky and Artour Mouftakhov, 45:1, 2014, 17-21, 9.3
 Proof Without Words: Limit of a Recursive Arithmetic Mean, Angel Plaza, 45:5, 2014, 364, C, 5.1.1, 5.4.1
 Groupoid Cardinality and Egyptian Fractions, Julia E. Bergner and Christopher D. Walker, 46:2, 2015, 122-129, 9.3, 9.4
 Partial Proof Without Words: Shaping Some Cases of the Erdos-Straus Conjecture, 46:3, 2015, 181, C, 9.3
 Square-Sum Pair Partitions, Gordon Hamilton, Kiran S. Kedlaya, and Henri Picciotto, 46:4, 2015, 264-269, 9.2, 9.3
 Proof Without Words: A Surprising Integer Result, Roger B. Nelsen, 47:2, 2016, 94, C, 0.3
 Multiplying by 9, Arthur Benjamin and Rohan Chandra, 47:4, 2016, 281, C, 0.2
 Divisibility Tests, Old and New, Sandy Ganzell, 48:1, 2017, 36-40, 9.3
 Factoring Numbers with Conway's 150 Method, Arthur T. Benjamin, 49:2, 2018, 122-125, 9.3
 Proof Without Words: Sums of Squares in a Thin Rectangle, Stephen Berendonk, 49:3, 2018, 180, C, 9.3
 Marching in Squares, Burkard Polster and Marty Ross, 49:3, 2018, 181-186, 0.2, 9.3
 Variations on the Binary Mind-Reading Trick, Jonathan Hoseana, 49:4, 2018, 262-268, 9.2, 9.3

0.2 Algebra

Mathematics, A Solitary Game, Olof Hanner, 1:2, 1970, 5-16, 4.1
 Gog and Gug, Howard W. Eves, 1:1, 1970, 8, C
 The Irrationality of Certain Numbers, Peter A. Lindstrom, 1:1, 1970, 30-31, 9.3
 A Computer-Oriented Multiplication Algorithm, John Peterson, 1:2, 1970, 106, C
 A Geometric Approach to the Orders of Infinity, Harold L. Schoen, 3:2, 1972, 74-76, C, 9.5
 Pascal's k-Simplex, Dale Woods and Mary Jane Kohlenberg, 4:3, 1973, 38-43
 Teaching Inequalities Involving Absolute Values, Frances W. Lewis, 4:2, 1973, 87-90, C
 Maximize $x(a-x)$, L. H. Lange, 5:1, 1974, 22-24, 0.7, 5.1.4
 A Geometric Approach to Linear Programming in the Two-Year College, Pat Semmes, 5:1, 1974, 37-40, 9.10
 A Further Note on the Orders of Infinity, Harold L. Schoen, 5:1, 1974, 80-81, C, 9.5
 Investigations of Linear and Reciprocal Functions by the Line-to-Line Technique, David R. Duncan and Bonnie H. Litwiller, 6:2, 1975, 2-7, 0.7
 Distributivity with Respect to All Four Rational Operations, Myles Greene, 6:2, 1975, 10-12
 Mathematical Induction: If Student k Understands It, Will Student $k + 1$?, Judith L. Gersting, 6:2, 1975, 18-20, 0.9
 Easter Revisited, Daniel T. Bleck, 6:3, 1975, 38-40
 Functional Notation—An Intuitive Approach, Ann D. Holley, 7:3, 1976, 14-15, 1.2
 Finding Super Accurate Integers, Pasquale Scopelliti and Herbert Peebles, 7:3, 1976, 52-54, 0.7, 9.6
 Mathematics and Computing without Computers, William S. Dorn, 8:2, 1977, 101-105
 The Perfect Curve: at Least for Grades, Lawrence Sher, 8:3, 1977, 148-152
 Operational and Intuitive Algebra, Betsey Whitman and Donald Cook, 8:3, 1977, 155-161
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 An Elementary Construction of the Common Log Tables, James H. Jordan, 8:5, 1977, 274-278
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 The Discovery of a Generalization: An Example in Problem Solving, Hugh Ouellette and Gordon Bennett, 10:2, 1979, 100-106, 0.3
 Polygonal Roots, Barnabas B. Hughes, 10:5, 1979, 313-318, 0.7
 Distance from a Point to a Line, Warren B. Gordon, 10:5, 1979, 348-349, C
 A Technique for Determining When a General Quadratic Expression is Factorable, Leo Chosid, 10:5, 1979, 354-355, C, 0.7
 Luddhar's Method of Solving a Cubic Equation with a Rational Root, R. S. Luthar, 11:2, 1980, 107-110, 0.7
 Computer Solution of Alphametics, Sarah Brooks, 11:2, 1980, 111-114
 Why Not Teach Synthetic Multiplication?, Kenneth R. Kundert, 11:2, 1980, 121-122, C
 A Precalculus Approximation of $n!$, Norman Schaumberger, 11:3, 1980, 202-204, C, 5.4.2
 An Error-Detecting Check by Substitution, Charles G. Moore, 11:5, 1980, 326-327, C
 A "Proof" that $M=N$, W. Thurmon Whitley, 12:3, 1981, 211, C
 Inventor's Paradox, Man-Keung Siu, 12:4, 1981, 267, C
 Misguided Mathematical Maxim-Makers, Betsy Darken Smith, 12:5, 1981, 309-316, 1.2
 A Classroom Approach to Pythagorean Triples, Norman Schaumberger, 13:1, 1982, 61-62, C
 Selection of a Fair Currency Exchange Rate, Allen J. Schwenk, 13:2, 1982, 154-155, C, 0.8
 An Alternate Method for Solving Radical Equations, Bill Bompert, 13:3, 1982, 198-199, C
 The Thrills of Abstraction, P. R. Halmos, 13:4, 1982, 243, 1.2
 Isomorphisms on Magic Squares, Ali R. Amir-Moez, 14:1, 1983, 48-51, 5.4.1, 9.2, 9.3, 9.4
 A Logarithm Algorithm for Four-Function Calculators, David Cusick, 14:4, 1983, 322, 5.3.2
 The Address Problem, Michael Tennor, 14:5, 1983, 407-414, 9.3
 Approximation of Square Roots, Leon Wejntrob, 14:5, 1983, 427-430, 0.7, 9.6
 Antisubmarine Warfare: Passive vs. Active Sonar, L. Whitt and K. Wilk, 14:5, 1983, 434-435, C
 Is the Venn Diagram Good Enough?, Mou-Liang Kung and George C. Harrison, 15:1, 1984, 48-50, 9.1
 A Geometrical Interpretation of the Weighted Mean, Larry Hoehn, 15:2, 1984, 135-139, 0.4, 7.3
 On Problems with Solutions Attainable in More Than One Way, Jean Pedersen and George Polya, 15:3, 1984, 218-228, 0.4, 5.4.2
 Complex Roots Made Visible, Alec Norton and Benjamin Lotto, 15:3, 1984, 248-249, C, 0.7
 Pythagorean Systems of Numbers, Joseph Wiener, 15:4, 1984, 324-326, C, 0.4, 9.3
 An Approach to Problem-Solving Using Equivalence Classes Modulo n , James E. Schultz and William F. Burger, 15:5, 1984, 401-405, 9.3
 The Factorial Triangle and Polynomial Sequences, Steven Schwartzman, 15:5, 1984, 424-426, C, 5.4.1, 6.3
 Right Triangles with Perimeter and Area Equal, William Parsons, 15:5, 1984, 429, C, 0.4
 What Do I Know? A Study of Mathematical Self-Awareness, Philip J. Davis, 16:1, 1985, 22-41, 9.3
 Nested Polynomials and Efficient Exponential Algorithms for Calculators, Dan Kalman and Warren Page, 16:1, 1985, 57-60, C, 0.7, 9.6
 Behold! The Arithmetic-Geometric Mean Inequality, Roland H. Eddy, 16:3, 1985, 208, C, 0.3
 Instances of Simpson's Paradox, Thomas R. Knapp, 16:3, 1985, 209-211, C, 7.3
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 Graphing the Complex Roots of a Quadratic Equation, Floyd Vest, 16:4, 1985, 257-261, C, 0.7, 9.5
 A New Divisibility Algorithm, Joseph Whittaker, 16:4, 1985, 268-276, 9.3
 A Discrete Look at $1 + 2 + \dots + n$, Loren C. Larson, 16:5, 1985, 369-382, 0.9, 3.1, 3.2, 5.4.2, 6.3
 Routine Problems, Sherman Stein, 16:5, 1985, 383-385, 5.1.5, 1.2
 A Babylonian Geometrical Algebra, James K. Bidwell, 17:1, 1986, 22-31, 0.3
 Irrationality Made Easy, Robert Bumcrot, 17:3, 1986, 243-244, C
 The Change of Base Formula for Logarithms, Chris Freiling, 17:5, 1986, 413, C, 5.3.2

A Guide to Computer Algebra Systems, John M. Hosack, 17:5, 1986, 434-441, 4.1, 5.1.2, 5.1.5, 5.2.3, 5.2.4, 5.2.5

Behold! The Graphs of f and f inverse are Reflections about the Line $y=x$, Ayoub B. Ayoub, 18:1, 1987, 52, C, 5.3.2

Powers and Roots by Recursion, Joseph F. Aieta, 18:5, 1987, 411-416, 0.7, 6.3

FFF #1. The Zero Function, Ed Barbeau, 20:1, 1989, 49-50, F (also 20:2, 1989, 133)

FFF #5. A Howler about Products of Logarithms, Ed Barbeau, 20:3, 1989, 226, F (also 20:4, 1989, 318 and 21:3, 1990, 218)

FFF #7. An Exponential Equation, Ed Barbeau, 20:4, 1989, 317, F (also 20:5, 1989, 404)

Quick Function Evaluation, Daniel S. Yates, 21:1, 1990, 51, C, 5.1.5

FFF #25. Solving an Inequality, Ed Barbeau, 21:4, 1990, 303, F

Geometrical and Graphical Solutions of Quadratic Equations, E. John Hornsby, Jr., 21:5, 1990, 362-369, 0.4

China's 1989 National College Entrance Examination, Bart Braden, 21:5, 1990, 390-393, 0.4, 0.6, 1.2

FFF #38. How to Solve a Quadratic Equation, Ed Barbeau, 22:2, 1991, 132, F (also 24:4, 1993, 345 and 25:4, 1994, 310)

FFF #39. The End Justifies the Mean, Ed Barbeau, 22:3, 1991, 220, F

FFF #40. Perron's Paradox, Ed Barbeau, 22:3, 1991, 221, F, 9.1 (also 23:3, 1992, 205 and 24:3, 1993, 231)

FFF #42. A Characterization of Finite Geometric Sequences, Ed Barbeau, 22:3, 1991, 221, F

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FFF #46. A Straightforward Cancellation, Ed Barbeau, 22:5, 1991, 403-404, F, 3.2

FFF #49. Two Transcendental Equations, Ed Barbeau, 23:1, 1992, 36, F, 5.3.2

FFF #52. An Application of the Cauchy-Schwartz Inequality, Ed Barbeau, 23:2, 1992, 142, F, 9.5

Infinitely Many Different Quartic Polynomial Curves, Nitsa Movshovitz-Hader and Alla Shmukler, 23:3, 1992, 186-195, 0.7

The Joy of Mathematics: A Mary P. Dolciani Lecture, Peter Hilton, 23:4, 1992, 274-281, 1.2

A Serendipitous Application of the Pythagorean Triplets, Susan Forman, 23:4, 1992, 312-314, C, 9.3

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FFF. Matrices and the TI-81 Graphics Calculator, Constance J. Gardner, 24:1, 1993, 64, F, 4.1

FFF #58. A Rational Combination of Two Transcendentals, Ed Barbeau, 24:3, 1993, 229, F, 5.3.2

FFF #59. A Formula that Works Only for $n=1$, Ed Barbeau, 24:3, 1993, 229-230, F, 0.9

FFF #60. A Two-Valued Function, Ed Barbeau, 24:3, 1993, 230, F, 5.3.2

FFF #65. Solving a Cubic, Ed Barbeau, 24:4, 1993, 344, F, 0.7 (also 25:4, 1994, 311)

FFF #67. A Superficial Volume Problem, Randall K. Campbell-Wright, 25:1, 1994, 35, F

FFF #70. Reading a Calculator Display, Sandra Z. Keith, 25:1, 1994, 36, F, 5.1.3

Approaches to the Formula for the n th Fibonacci Number, Russell Jay Hendel, 25:2, 1994, 139-142, C, 4.5, 5.4.2, 9.3, 9.5

Extending Bernoulli's Inequality, Ronald L. Persky, 25:3, 1994, 230, C, 9.5

FFF #84. A Method for Solving a Cubic Equation, Ed Barbeau, 26:1, 1995, 35-36, F, 0.7

FFF #86. Watch Your Ears!, Bruce Yoshiwara, 26:1, 1995, 36, F

FFF #87. Do You Know How to Split the Atom?, Milt Eisner, 26:1, 1995, 37, F

The Product of Four (Positive) Numbers in Arithmetic Progression is Always the Difference of Two Squares (Proof Without Words), Roger B. Nelsen, 26:2, 1995, 131, C

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FFF #97. A Surd Equation, Ed Barbeau, 27:1, 1996, 45, F (see also 27:3, 1996, 204-205)

FFF #105. The Remainder Theorem, Richard Laatsch, 27:4, 1996, 282, F, 9.4

FFF #113. The Disappearing Solution, Ed Barbeau, 28:2, 1997, 120, F (see also 30:1, 1999, 40-43, 30:2, 1999, 132, 30:4, 1999, 307)

FFF #120. A Quick (?) Proof of Irrationality, Richard Askey, 28:4, 1997, 286, F

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- FFF #124. The Number of Tickets Sold, Robert W. Vallin, 29:1, 1998, 34-35, F
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- FFF #136. Surprising Symmetry, David Wells, 29:5, 1998, 407, F
- FFF #137. Drenching a sphere, David Cantrell, 30:1, 1999, 39, F
- Multiplying and Dividing Polynomials Using Geloxia, Jeff Suzuki, 30:1, 1999, 50-53, C
- The Trinomial Triangle, James Chappell and Thomas Osler, 30:2, 1999, 141-142, C, 3.2
- An Identity for $n(n+1)(n+2)(n+3)+1$, Alfinio Flores, 30:3, 1999, 247, C
- FFF #148. An exponential mess, Eric Chander, 30:4, 1999, 306, F
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5.2 Integration

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5.6 Curves and surfaces

5.6.1 Parametric and polar curves

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 Almost-Binomial Random Variables, Peter Thompson, 33:3, 2002, 235-237, C
 Chasing Hank Aaron's Home Run Record, Steven P. Bisgaier, Benjamin S. Bradley, Peter D. Harwood, and Paul M. Sommers, 33:4, 2002, 293-295
 Observations on the Indeterminacy of the Sample Correlation Coefficient, Owen Byer, 33:4, 2002, 316-318, C
 Baseball's All-Stars: Birthplace and Distribution, Paul M. Sommers, 34:1, 2003, 24-30
 A Calculus Theorem Motivated by a Statistics Problem, David L. Farnsworth, 35:2, 2004, 126-129, C
 FFF. Teenagers, Sex and Accidents, Joseph G. Eisenhauer, 35:3, 2004, 213-214, F
 A Quick Proof that the Least Squares Formulas Give a Local Minimum, W. M. Dunn III, 36:1, 2005, 64-65, C, 5.7.1
 A Painless Approach to Least Squares, Eric S. Key, 36:1, 2005, 65-67, C
 A Recursive Formula for Moments of a Binomial Distribution, Arpad Benyi and Saverio M. Manago, 36:1, 2005, 68-72, C
 The Sample Correlation Coefficient from a Linear Algebra Perspective, C. Ray Rosentrater, 37:1, 2006, 47-50, C, 4.3
 An Elegant Mode for Determining the Mode, D. S. Broca, 37:2, 2006, 134-137, C
 FFF #252. A snafu, Kenneth Schilling, 37:4, 2006, 290, F
 Distortion of average class size: The Lake Wobegon effect, Allen Schwenk, 37:4, 2006, 293-296, C
 More Mathematics in the Bedroom: A Paradoxical Probability, Paul K. Stockmeyer, 38:5, 2007, 339-344, 9.4
 A Waiting-Time Surprise, Richard Parris, 39:1, 2008, 59-63, C
 The Pearson and Cauchy-Schwarz Inequalities, David Rose, 39:1, 2008, 64, C, 5.5, 9.5
 Average Perceived Class Size and Average Perceived Population Density, Clifford H. Wagner, 40:4, 2009, 284-287, C
 Teaching Tip: The Median is a Balance Point, Mark Lynch, 40:4, 2009, 292, C
 Correlation of the Union of Two Bivariate Data Sets, Robert A. Fontenot, 40:5, 2009, 370-373, C
 An Upper Bound for the Expected Range of a Random Sample, Manuel Lopez and James Marengo, 41:1, 2010, 42-48
 The Distribution of the Sum of Signed Ranks, Brian Albright, 43:3, 2012, 232-236
 Suspense at the Ballot Box, Nat Kell and Matt Kretchmar, 44:1, 2013, 9-16, 7.2, 9.10
 Gender Bias?, Elizabeth A. Burroughs and Jessica M. Deshler, 44:2, 2013, 88, C
 Quiz Today: Should I Skip Class?, Peter Zizler, 44:3, 2013, 166-170

Seasonal Variation in Epidemiology, Osvaldo Marrero, 44:5, 2013, 386-398, 9.10
 Student Research Project: About the Pace of Climate Change: Write a Report to the President, Lily Khadjavi, 44:5, 2013, 428-432, C, 5.1.5, 9.10
 Calculus from a Statistics Perspective, Kimberly Leung, Chris Rasmussen, Samuel S. P. Shen, and Dov Zazkis, 45:5, 2014, 377-386, 5.1.2, 5.2.1
 Predicting Wins and Losses: A Volleyball Case Study, Elizabeth Knapper and Hope McIlwain, 46:5, 2015, 352-358, 4.1, 9.10
 Simplified Expectations in the Birthday Problem, Leonard Littleton and Russell May, 47:1, 2016, 50-55, 5.3.4, 5.4.3
 Empirical Modeling: Choosing Models and Fitting Them to Data, Glenn Ledder, 47:2, 2016, 109-119, 9.10
 Statistics on the Bonus Round of Wheel of Fortune, Kathleen Ryan and Brittany Shelton, 47:4, 2016, 250-253, 7.3, 9.2
 Covariances Between Transient States in finite Absorbing Markov Chains, Michael A. Carchidi and Robert L. Higgins, 48:1, 2017, 42-50, 9.9
 A Very Short Proof that the Sum of Independent Normal Random Variables Is Normal, Bennett Eisenberg, 48:2, 2017, 137, C
 A Curious Feature of Regression, Carl V. Lutzer, 48:3, 2017, 189-198, 4.1

7.4 Software for probability and statistics

A Mathematics Software Database, R. S. Cunningham and David A. Smith, 17:3, 1986, 255-266, 0.10, 3.4, 4.8, 5.8, 6.7, 9.11
 A Mathematics Software Database Update, R. S. Cunningham and David A. Smith, 18:3, 1987, 242-247, 0.10, 3.4, 4.8, 5.8, 6.7, 9.11
 The Compleat Mathematics Software Database, R. S. Cunningham and David A. Smith, 19:3, 1988, 268-289, 0.10, 3.4, 4.8, 5.8, 6.7, 9.11
 Software Reviews: *Activstats*, Norman Preston, 32:2, 2001, 138-140
 SAGE: Open Source Mathematics Software System, reviewed by J. K. Denny, 44:2, 2013, 149-155, C, 4.8, 5.8, 6.7, 9.11
 Statistics Web Apps, Anne Quinn, 48:5, 2017, 378-382

8 Computer Science

8.1 Programming and algorithms

Drawing the Line Segment Connecting Two Points, Harley Flanders, 18:1, 1987, 53-57, 0.4, 3.3
 Enhancing the Value of Graphics Programs, Clifford H. Wagner, 18:2, 1987, 142-152, 8.3
 Controlling Roundoff Errors in Sums, Harley Flanders, 18:2, 1987, 153-156, 9.6
 Computing Pi, Harley Flanders, 18:3, 1987, 230-235, 5.2.3, 5.4.2
 Fibonacci Numbers and Computer Algorithms, John Atkins and Robert Geist, 18:4, 1987, 328-336, 5.1.4, 6.3
 Computing m th Roots, Keith Mathews, 19:2, 1988, 174-176
 Sieving Primes on a Micro, Harley Flanders and Alan F. Tomala, 19:4, 1988, 364-367, 9.3
 How Mathematicians Know What Computers Can't Do, Leon Harkleroad, 27:1, 1996, 37-42
 CORDIC: Elementary Function Computation Using Recursive Sequences, Neil Eklund, 32:5, 2001, 330-333, 9.6
 FFF #234. Multiplication algorithms, Yves Nievergelt, 39:2, 2008, 137-138, F, 0.1
 The Tower and Glass Marbles Problem, Richard Denman, David Hailey, and Michael Rothenberg, 41:5, 2010, 350-356, 3.2

Winning a Pool is Harder Than You Thought, John P. Bonomo, 47:5, 2016, 347-354
Tactile Tools for Teaching: Implementing Knuth's Algorithm for Mastering Mastermind, Thomas M. Fiore, Alexander Lang, and Antonella Perucca, 49:4, 2018, 278-286, 3.2, 9.1, 9.2
The Solution to a Hanoi-ing Little Problem, John P. Bonomo, 49:4, 2018, 288-291, 3.3, 6.3, 9.2

8.2 Data structures

Generating Posets, Harley Flanders, 18:4, 1987, 323-327, 9.4
The Flowering of String Rewriting Systems, Anne M. Burns, 23:3, 1992, 225-235, 8.3

8.3 Computer graphics

Enhancing the Value of Graphics Programs, Clifford H. Wagner, 18:2, 1987, 142-152, 8.1
Drawing a Circle, Harley Flanders, 19:1, 1988, 72-78
Parametric Surfaces, Harley Flanders, 19:5, 1988, 444-447, 5.6.1
The Curious Fate of an Applied Problem, Alan H. Schoenfeld, 20:2, 1989, 115-123, 5.1.5, 9.5
The Matrix of a Rotation, Roger C. Alperin, 20:3, 1989, 230, C, 4.3
Image Expansion in Integer Arithmetic, Mark Bridger, 22:5, 1991, 429-435
Calculus and Computer Vision, Mark Bridger, 23:2, 1992, 132-141, 5.7.1
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Fireworks, J. M. A. Danby, 23:3, 1992, 237-240, C, 6.2
Complex Vectors and Image Identification, Lyndell Kerley and Jeff Knisley, 24:2, 1993, 166-174, 9.6
A Computer Lab for Multivariate Calculus, Casper R. Curjel, 24:2, 1993, 175-177, C, 1.2, 5.7.1
Making Mountains from a Sum of Molehills, Anne M. Burns, 26:1, 1995, 51-57
Modeling Trees with a Stochastic Matrix, Anne M. Burns, 29:3, 1998, 230-236, 3.1
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8.4 Other topics in computer science

Of Memories, Neurons, and Rank-One Corrections, Kevin G. Kirby, 28:1, 1997, 2-19, 4.6

9 Other Topics

9.1 Set theory and logic (also see 0.9)

If...Some Suggestions on Presenting the Connector "if...then", Aaron Seligman, 1:2, 1970, 22-26, 0.9
Factoring Functions, J. C. Bodenrader, 2:1, 1971, 23-26, 0.6, 5.1.2, 3.2
Some Applications of the Law of the Contrapositive, Morton J. Hellman, 4:3, 1973, 86-88, C, 0.9
The Equivalence of the Well-Ordering Principle and Dirichlet's Box Principle, Aron Pinker, 5:1, 1974, 76-77, C
Who Dunnit?, Lawrence G. Gilligan and Robert B. Nenno, 5:1, 1974, 78-79, C
Godel's Theorem (Part I), Richard Wiebe, 6:2, 1975, 13-17
Godel's Theorem (Part II), Richard Wiebe, 6:3, 1975, 4-7
Mathematics—Is It Any of Your Business?, Ralph Mansfield, 6:3, 1975, 20-26, 3.1, 1.2
Solving Whodunits by Symbolic Logic, Lawrence Sher, 6:4, 1975, 36-38
On the Definition of Implication: Classroom Discussion and Justification, Ray F. Snipes, 8:4, 1977, 247-252, C
Types of Relations, Kenneth Slonneger, 8:5, 1977, 267-269
Boolean Algebra as a Proof Paradigm, Lawrence Sher, 9:3, 1978, 186-190

Analogies and Metaphors to Explain Godel's Theorem, Douglas R. Hofstadter, 13:2, 1982, 98-114
 A Machine as Smart as God, Rudy Rucker, 13:2, 1982, 115-121, 2.2
 The Asylum of Doctor Tarr and Professor Fether, Raymond Smullyan, 13:2, 1982, 142-146
 Probabilistic Dependence Between Events, Ruma Falk and Maya Bar-Hillel, 14:3, 1983, 240-247, 7.2
 A Computational Approach to Logical Statements, J. N. Boyd and P. N. Raychowdhury, 14:4, 1983, 326-341
 Is the Venn Diagram Good Enough?, Mou-Liang Kung and George C. Harrison, 15:1, 1984, 48-50, 0.2
 The Construction of Venn Diagrams, Branko Grunbaum, 15:3, 1984, 238-247
 An Odd Induction Proof, Karl David, 15:3, 1984, 251, C
 How to Live to be 100, Robert Geist, 15:4, 1984, 256-263
 On Venn Diagrams and the Counting of Regions, Branko Grunbaum, 15:5, 1984, 433-435, C
 Satan, Cantor, and Infinity, Raymond M. Smullyan, 16:2, 1985, 118-121
 FFF #9. The Countability of the Reals, Ed Barbeau, 20:5, 1989, 403, F, 9.5 (also 21:1, 1990, 36 and 22:5, 1991, 405)
 FFF # 10. The Uncountability of the Plane, Ed Barbeau, 20:5, 1989, 403-404, F, 9.5 (also 21:1, 1990, 36)
 FFF #36. A Logical "Paradox", Ed Barbeau, 22:2, 1991, 132, F (also 23:3, 1992, 205)
 FFF #40. Perron's Paradox, Ed Barbeau, 22:3, 1991, 221, F, 0.2 (also 23:3, 1992, 205 and 24:3, 1993, 231)
 Programs for a Logic Course, Richard F. Maruszewski, Jr., 22:3, 1991, 235-240
 FFF. Red Hats, Ed Barbeau, 22:4, 1991, 307, F
 FFF. Equal Unions, Ed Barbeau, 23:4, 1992, 304-305, F
 The Linear Transformation Associated with a Graph: Student Research Project, Irl C. Bivens, 24:1, 1993, 76-78, 3.1, 4.3
 Using PROLOG in Discrete Mathematics, Antonio M. Lopez, Jr., 24:4, 1993, 357-365, 3.1, 3.4
 FFF #93. An Invalid Argument, Annie Selden and John Selden, 27:1, 1996, 43-44, F
 FFF #98. Doggedly Bisexual, Ed Catherall, 27:2, 1996, 116, F
 A New Theorem on Cardinality, Charles J. Kicey, 30:1, 1999, 66, C
 FFF. There are no contradictions, Theodore G. Ammon, 31:1, 2000, 48-49, F
 A Game-Like Activity for Learning Cantor's Theorem, Shay Gueron, 32:2, 2001, 122-125, C
 Comment on *There are no contradictions*, Calvin Jongma, 32:3, 2001, 199-200, F
 Comparing Sets of the Empty Set, Allen J. Schwenk, 33:3, 2002, 232-233, C, 9.5
 Sets of Sets: A Cognitive Obstacle, Lawrence Brenton, 34:1, 2003, 31-38, 9.4
 What Did Lincoln Really Mean?, Paul K. Stockmeyer, 35:2, 2004, 103-104
 An Elementary Resolution of the Liar Paradox, James S. Walker, 35:2, 2004, 105-111
 Mind Your \forall 's and \exists 's, Stephen M. Walk, 35:5, 2004, 362-369, 4.3
 Mathematics in *War and Peace*, Arthur Neuman, 39:3, 2008, 202, C
 Dinner Tables and Concentric Circles: A Harmony of Mathematics, Music, and Physics, Jack Douthett and Richard J. Krantz, 39:3, 2008, 203-211, 3.2, 9.10
 Dependent Probability Spaces, William F. Edwards, Ray C. Shiflett, and Harris S. Shultz, 39:3, 2008, 221-226, 7.2
 Two Applications of a Hamming Code, Andy Liu, 40:1, 2009, 2-5, 9.2, 9.3
 Flaws, Fallacies, and Flimflam: The Limits of Reason, Andrea Rothbart, 42:4, 2011, 264, F
 Is Parallelism an Equivalence Relation?, Andy Liu, 42:5, 2011, 372, C, 0.3
 Sets, Planets, and Comets, Mark Baker, Jane Beltran, Jason Buell, Brian Conrey, Tom Davis, Brianna Donaldson, Jeanne Detorre-Ozeki, Leila Dibble, Tom Freeman, Robert Hammie, Julie Montgomery, Avery Pickford, and Justine Wong, 44:4, 2013, 258-264, 7.2, 9.2
 Matroids on Groups?, Jeremy S. LeCrone and Nancy Ann Neudauer, 45:2, 2014, 121-128, 3.1, 3.2, 9.4
 Story Puzzles, Oscar Levin, 45:4, 2014, 296, C, 9.2
 Knights, Knaves, Normals, and Neutrals, Jason Rosenhouse, 45:4, 2014, 297-306, 9.2
 A Powerful Method of Non-Proof, John Beam, 48:1, 2017, 52-54, C, 9.3

UFOs in the game SET: Looking for Airplanes and Spaceships, Jonathan Needleman and Felicia Sciortino, 48:4, 2017, 249-257, 3.2, 9.2, 9.7
 Basic Theorems in the Language of Maximal Intervals, Haryono Tandra, 49:1, 2018, 41-45, 9.5
 Can a Subset's Topology Detect Continuous Extensions?, Mike Krebs, 49:2, 2018, 138-139, C, 9.8
 Tactile Tools for Teaching: Implementing Knuth's Algorithm for Mastering Mastermind, Thomas M. Fiore, Alexander Lang, and Antonella Perucca, 49:4, 2018, 278-286, 3.2, 8.1, 9.2
 A Concise Proof of the Triangle Inequality for the Jaccard Distance, Artur Grygorian and Ionut E. Iacob, 49:5, 2018, 363-365

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The Game of Sprouts, Gordon D. Prichett, 7:4, 1976, 21-25, 3.1
 Connect-It Games, Frank Harry and Robert W. Robinson, 15:5, 1984, 411-419, 3.1
 Pascal's Triangle, Karl J. Smith, 4:1, 1973, 1-13, 0.6, 3.2
 Fibonacci Numbers and Pineapple Phyllotaxy, Judithlyne Carson, 9:3, 1978, 132-136, 5.4.1
 Computer-Generated Knight Tours, Michael Gilpin, 13:4, 1982, 252-259, 3.1, 3.3
 Isomorphisms on Magic Squares, Ali R. Amir-Moez, 14:1, 1983, 48-51, 0.2, 9.3, 9.4
 Sequences, Series, and Pascal's Triangle, Lenny K. Jones, 14:3, 1983, 253-256, C, 5.4.2, 6.3
 Paths and Pascal Numbers, John F. Lucas, 14:4, 1983, 329-341, 3.2
 A Tiling of the Plane with Triangles, Paul T. Mielke, 14:5, 1983, 377-381, 0.3, 9.3
 Pascal's Triangle, Difference Tables and Arithmetic Sequences of Order N , Calvin Long, 15:4, 1984, 290-298, 3.2, 5.4.1, 6.3
 The Pascal Polytope: An Extension of Pascal's Triangle to N Dimensions, John F. Putz, 17:2, 1986, 144-155, 3.2, 5.4.1, 6.3
 Pascal Triangles and Combinations Where Repetitions Are Allowed, Kendell Hyde, 19:1, 1988, 60-62, C, 3.2
 Musical Notes, Angela B. Shiflet, 19:4, 1988, 345-347, C, 7.2, 3.2
 It's Magic! Multiplication Theorems for Magic Squares, Daniel Widdis and R. Bruce Richter, 20:4, 1989, 301-306, 3.2, 9.3
 A Complete Solution to the Magic Hexagram Problem, Harold Reiter and David Ritchie, 20:4, 1989, 307-316, 9.2, 9.4
 Permutation Puzzles: Student Research Project, John H. Wilson, 24:2, 1993, 163-165, 3.2
 FFF. A Centennial Tribute to Sam Loyd, Dean Clark, 23:5, 1992, 402-404, F
 A Mathematical Crossword Puzzle, James Leslie, 29:4, 1998, 295, C
 Digits in Triangular Squares, Dipendra Sengupta, 30:1, 1999, 31, C
 Modeling Mathematics With Playing Cards, Martin Gardner, 31:3, 2000, 173-177
 On Lunda-Designs and the Construction of Associated Magic Squares of Order $4p$, Paulus Gerdes, 31:3, 2000, 182-188, 0.3
 Numerology Marches On, David Singmaster, Lawrence Braden, Peter Y. Woo and Brian Stewart Watts, 31:3, 2000, 236-237, C
 Some New Results on Magic Hexagrams, Martin Gardner, 31:4, 2000, 274-280, 3.2
 Analyzing Games of Information, Randall McCutcheon, 32:2, 2001, 82-90
 The Lord Over Better and Worse Births, John Fossa and Glenn Erickson, 32:3, 2001, 185-193, 9.3
 Magic Squares, Finite Planes, and Points of Inflection on Elliptic Curves, Ezra Brown, 32:4, 2001, 260-267, 5.1.3, 9.3
 Miscellanea: Clock Arithmetic, Carlton A. Lane, 32:4, 2001, 317, C
 A Visit With Six, Monte J. Zenger, 33:2, 2002, 74-87, 9.3
 A Poem: A Meeting with Sunya, V. V. Dixit, 33:2, 2002, 166-167, C
 Nine Cubits or Simple Soma, Richard K. Guy and Marc M. Paulhus, 33:3, 2002, 188-195, 9.7
 The "Origin" of Geometry, Reuben Hersh, 33:3, 2002, 207-211, 0.3, 2.1

Alice in Numberland: An Informal Dramatic Presentation in 8 fits, Robin Wilson, 33:5, 2002, 354-377
 Lewis Carroll's Amazing Number-Guessing Game, Richard F. McCoart, 33:5, 2002, 378-383, 0.2
 A 51-star U. S. Flag, Gary Kennedy, 34:2, 2003, 170-171, C
 Linearizing Mile Run Times, Garrett I. Ash, J. Marshall Ash, and Stefan Catoiu, 35:5, 2004, 370-374, 0.1
 FFF #233. Measuring humour, Timandra Harkness and Helen Pilcher, 36:1, 2005, 50-51, F
 How to Ensure That Level Heads Prevail, Shmuel Zamir and Ruma Falk, 36:5, 2005, 396, 418, C
 Graeco-Latin Squares and a Mistaken Conjecture of Euler, Dominic Klyve and Lee Stemkoski, 37:1,
 2006, 2-15, 3.2, 9.4
 A Card Trick and the Mathematics Behind It, Gabriela R. Sanchis, 37:2, 2006, 103-109, 9.5
 The Non-Attacking Queens Game, Hassan Noon and Glen Van Brummelen, 37:3, 2006, 223-227, C
 We Didn't Start Mathematics (song lyrics), Brian Beasley, 38:3, 2007, 204, 209, C
 The Number-Pad Game, Alex Fink and Richard Guy, 38:4, 2007, 260-264
 Hermit Points on a Box, Richard Hess, Charles Grinstead, Marshall Grinstead, and Deborah Bergstrand,
 39:1, 2008, 12-23, 0.4, 5.7.1
 Number Place – The First Sudoku, Ed Pegg, Jr., 39:1, 2008, 33, C
 Finding All Solutions to the Magic Hexagram, Alexander Karabegov and Jason Holland, 39:2, 2008, 102-
 106, 3.2
 They Say Mathematics is Beautiful (poem), Kung-Ming Tiong, 39:2, 2008, 128, C
 Poem: Mathematical Slumber, Lee Ann Leung, 39:4, 2008, 298, C
 Fetching Water with Least Residues, Herb Bailey, 39:4, 2008, 304-306, C, 9.3
 You *Can* Teach an Old Magician New Tricks, John P. Bonomo, 39:5, 2008, 346-356
 Tuning with Triangles, Leon Harkleroad, 39:5, 2008, 367-373, 2.2
 FFF #286. Lines of cubes in a block, Ed Barbeau, 39:5, 2008, 383, F, 3.2
 Sam Loyd's Courier Problem with Diophantus, Pythagoras, and Martin Gardner, Owen O'Shea, 39:5,
 2008, 387-391, C, 0.2, 0.7
 Two Applications of a Hamming Code, Andy Liu, 40:1, 2009, 2-5, 9.1, 9.3
 Solomon's Sea and Pi, Andrew J. Simoson, 40:1, 2009, 22-32, 0.4, 2.1
 Winning at Rock-Paper-Scissors, Derek Eyller, Zachary Shalla, Andrew Doumaux, and Tim McDevitt,
 40:2, 2009, 125-128, C, 7.1, 7.2
 L-Tromino Tiling of Mutilated Chessboards, Martin Gardner, 40:3, 2009, 162-168, 9.7
 Polyomino Problems to Confuse Computers, Stewart Coffin, 40:3, 2009, 169-172, 9.7
 Puzzling Mechanisms, M. Oskar van Deventer, 40:3, 2009, 173, 180-181, 193-195, 201-203, 211
 Set of Mutually Orthogonal Sudoku Latin Squares, Ryan M. Pedersen and Timothy L. Vis, 40:3, 2009,
 174-180, 9.4
 Jeeps Penetrating a Hostile Desert, Herb Bailey, 40:3, 2009, 182-188, 9.9, 9.10
 Three Poems, Caleb Emmons, 40:3, 2009, 188, 0.1
 Flipping Triangles!, Marc Zucker, 40:3, 2009, 189-193, 3.1
n-Card Tricks, Hang Chen and Curtis Cooper 40:3, 2009, 196-201, 3.2
 Reflections on the $N + k$ Queens Problem, R. Douglas Chatham, 40:3, 2009, 204-210, 3.2, 4.1
 Crossword Puzzle: $\pi_1 \cong \mathbb{Z} \oplus \mathbb{Z}$, Gary Kennedy, 40:3, 2009, 212
 We shall find the Cube of the Rainbow (poem), Emily Dickinson, 40:5, 2009, 336, C
MoonPi, Bathsheba Grossman, 40:5, 2009, 344, C
To Divine Proportion (poem), Rafael Alberti, 40:5, 2009, 375, C
 Brown Sharpie: Advanced Frisbee Calculus, Courtney ??, 41:1, 2010, 16, C
 Grobner Basis Representations of Sudoku, Elizabeth Arnold, Stephen Lucas, and Laura Taalman, 41:2,
 2010, 101-111, 9.4
 Sonnet (poem), Susan Colley, 41:2, 2010, 144, C
 Three Poems, Nicole Yunger Halpern, 41:3, 2010, 233-234, C
 How Bound Tetrahedron Wraps a Real Tetrahedron, Roger Berry, 41:5, 2010, 356, C, 0.3

Poem: A Little Love Story, Bonnie Shulman, 41:5, 2010, C

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How *Iterated Mobius* was constructed, Anne Burns, 42:1, 2011, 14, C

Mathematical Jeopardy?, Andy Liu, 42:1, 2011, 24, C

Boundary Conditions (poem), Ursula Witcher, 42:1, 2011, 56, C

Mathematics at the Movies, Martin J. Erickson, 42:3, 2011, 228, C

Folding Polyominoes from One Level to Two, Greg N. Frederickson, 42:4, 2011, 265-274, 0.3, 9.7

The Easiest Lights Out Games, Bruce Torrence, 42:5, 2011, 361-371, 4.1, 4.3

Student Research Project: One-dimensional Czedli-type Islands, Eszter K. Horvath, Attila Mader, and Andreja Tepavcevic, 42:5, 2011, 374-378, C, 0.9, 3.2, 9.3

Averaging Sums of Powers of Integers, Thomas J. Pfaff, 42:5, 2011, 402-403, C, 3.2, 9.3

Hexaflexagons, Martin Gardner, 43:1, 2012, 2-5, 0.3, 3.2, 9.4, 9.8

The V-flex, Triangle Orientation, and Catalan Numbers in Hexaflexagons, Ionut E. Iacob, Bruce McLean, and Hua Wang, 43:1, 2012, 6-10, 0.3, 3.1, 3.2, 5.4.1, 9.8

From Hexaflexagons to Edge Flexagons to Point Flexagons, Les Pook, 43:1, 2012, 11-14, 0.3, 3.1, 9.4, 9.8

Cups and Downs, Ian Stewart, 43:1, 2012, 15-19, 3.2, 4.1

Martin Gardner's Mistake, Tanya Khovanova, 43:1, 2012, 20-24, 7.2

Mad Tea Party Cyclic Partitions, Robert Bekes, Jean Pedersen, and Bin Shao, 43:1, 2012, 25-36, 3.2, 9.3

Triangular Numbers, Gaussian Integers, and KenKen, John J. Watkins, 43:1, 2012, 37-42, 0.1, 9.3

Carryless Arithmetic Mod 10, David Applegate, Marc LeBrun, and N. J. A. Sloane, 43:1, 2012, 43-50, 0.1, 5.4.1, 9.4

Bracing Regular Polygons As We Race into the Future, Greg N. Frederickson, 43:1, 2012, 51-57, 0.3

Squaring, Cubing, and Cube Rooting, Arthur T. Benjamin, 43:1, 2012, 58-63, 0.1, 0.2

A Platonic Sextet for Strings, Karl Schaffer, 3:1, 2012, 64-69, 0.3, 3.1

The Play's the Thing! (crossword puzzle), Gary Kennedy and Stephen Kennedy, 43:1, 2012, 70-71, 9.2

Magic Knight's Tours, John D. Beasley, 43:1, 2012, 72-75, 9.2

Polyomino Dissections, Tiina Hohn and Andy Liu, 43:1, 2012, 88-94, 0.3

30 Years of Bulgarian Solitaire, Brian Hopkins, 43:2, 2012, 135-140, 3.2, 9.3

Retrolife and the Pawns Neighbors, Yossi Elran, 43:2, 2012, 147-151, 3.3, 9.10

Lake Wobegon Dice, Jorge Moraleda and David G. Stork, 43:2, 2012, 152-159, 3.3, 7.2, 9.9

RATWYT, Aviezri S. Fraenkel, 43:2, 2012, 160-164, 3.1, 3.2

The Spider and the Fly, Keith E. Mellinger and Raymond Viglione, 43:2, 2012, 169-172, C, 0.4

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Multi-Peg Tower of Hanoi, Paul Ishihara and Doeke Buursma, 44:2, 2013, 110-116, 3.2

Sets, Planets, and Comets, Mark Baker, Jane Beltran, Jason Buell, Brian Conrey, Tom Davis, Brianna Donaldson, Jeanne Detorre-Ozeki, Leila Dibble, Tom Freeman, Robert Hammie, Julie Montgomery, Avery Pickford, and Justine Wong, 44:4, 2013, 258-264, 7.2, 9.1

Instant Insanity II, Tom Richmond and Aaron Young, 44:4, 2013, 265-272, 3.1, 3.2

Mancala Matrices, L. Taalman, A. Tongen, B. Warren, F. Wyrick-Flax, and I. Yoon, 44:4, 2013, 273-283, 3.2, 4.1

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Statistics on the Bonus Round of Wheel of Fortune, Kathleen Ryan and Brittany Shelton, 47:4, 2016, 250-253, 7.3
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 Form (poem), Sarah Blake, 47:5, 2016, 333, C, 9.8
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 Forgotten Equations (poem), Kazim Ali, 48:2, 2017, 111, C
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 Dihedoku Puzzle 3, David Nacin, 48:4, 2017, 264, C, 9.4
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 On a Complex KenKen Problem, David Nacin, 48:4, 2017, 274-282, 9.4
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 An Introduction to Lazy Cops and Robbers on Graphs, Brendan W. Sullivan, Nikolas Townsend, and Mikayla L. Werzanski, 48:5, 2017, 322-333, 3.1
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 Strange Spinners and Diversity of Dice in Chutes and Ladders, Erin Frassetto, Michael Gableman, McKenzie Lamb, Tyler Shimek, and Andrea Young, 49:4, 2018, 251-260, 3.2, 4.7, 7.2, 9.10
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 Variations on the Binary Mind-Reading Trick, Jonathan Hoseana, 49:4, 2018, 262-268, 0.1, 9.3
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Scientific WorkPlace, Jerry Thornhill, 27:4, 1996, 305-311
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Intermediate Algebra, Joseph Newmyer and Gus Klentes, 5:1, 1974, 60-61, reviewed by Edward B.
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Elementary Linear Algebra, Paul C. Shields, 5:1, 1974, 61-62, reviewed by Frank Hacker
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Hancock
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Gersting
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Allen P. Angel
Business Mathematics—A Collegiate Approach, Nelda W. Roueche, 5:2, 1974, 55-56, reviewed by
Lawrence Clar
Algebra Programmed, R. H. Alwin and R. D. Hackworth and J. Howland, 5:2, 1974, 56-57, reviewed by
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58-59, reviewed by Olene C. Zacher
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