

Outside Reading Suggestions

Spring 2013,

Wil Clarke—April 12, 2013,

The following articles are all available at the periodical desk of the La Sierra University Library.

General Interest

- Mayfield, Betty “Women and mathematics in the time of Euler,” *Coll Math J* Mar 2013, p82
- Isihara, Paul “Multi-peg tower of Hanoi,” *Coll Math J* Mar 2013, p110
- Kalman, Dan “Galileo, Gauss, and the green monster,” *Math Teach* Apr 2013, p580
- Sudbery, Anthony, “Dürer’s magic tesseract,” *Math Gaz* Mar 2013, p8
- Pogue, David “Disappointment of dazzling displays,” *Scientific American* Apr 2013, p34
- Nabb, Keith “Student’s exploratory thinking about a nonroutine calculus task,” *Math Teach* Feb 2013, p432
- Zelkowsky, Jeremy “Making sense of extraneous solutions,” *Math Teach* Feb 2013, p452
- Pla, Juan “On a sequence of algebraic formulae of Ramanujan,” *Math Gaz* July 2012, p201
- Krell, Nat “Suspense at the ballot box,” *Coll Math J* Jan 2013, p9
- Goehle, Geoff “Polynomial graphs and symmetry,” *Coll Math J* Jan 2013, p37
- Ecker, Michael “Shortest tangents and longest ladders,” *Math Comp Ed* Fall 2012, p205
- Bannat, Stephen “The trig tribe,” *Math Teach* Dec 2012, p400
- Webber, Robert “Using spreadsheets to help students think recursively,” *Primus* No5 2012, p365
- Jorgensen, Theresa “Limits of infinite processes for liberal arts majors: two classic examples,” *Primus* No6 2012, p482
- Von Renesse, Christine “Musical palindromes for liberal arts students,” *Primus* No7 2012, p525
- Berry, Stuart “The mathematical modeling of population change,” *Math Gaz* July 2012, p243
- Halcrow, Cheryl, “Online homework in Calculus 1: Friend or Foe?” *Primus* No8 2012, p664
- Gray, Shirley “December 21, 2012: A date of opportunity,” *Math Teach* Dec 2012, p339
- Brothers, Harlan “Pascal’s Prism,” *Math Gaz* July 2012, p213
- Benko, David “Getting rich slowly, almost surely,” *Math Gaz* July 2012, p226
- Khovanova, Tanya “Killer problems,” *Math Mag* Dec 2012, p 815
- Lorch, John “Magic Squares and Sudoku,” *Monthly* Nov 2012, p759
- Seppala-Holtzman, D.N. “An optimal basketball free throw,” *Coll Math J* Nov 2012, p387
- Richardson, Kerri “Exploring quadrilaterals through flexible approaches,” *Math Teach* Nov 2012, p288
- Weber, Eric “Understanding the derivative through the calculus triangle,” *Math Teach* Nov 2012, p274
- Weiss, Michael “Thinking like a mathematician,” *Math Teach* Nov 2012, p269
- Klosinski, Leonard “The seventy-second William Lowell Putnam Mathematical Competition,” *Monthly* Oct 2012, p623
- Bailey, David “ancient Indian square roots: an exercise in forensic paleo-mathematics,” *Monthly* Oct 2012, p646
- Stephan, Paula “The other 1 percent,” *Sc Amer* Oct 2012, p50
- Gjøvik, Øistein “Flying high with the bird tetrahedron,” *Math Teach* Aug 2012, p16 geom,
- Kothari, Mangala “A classroom note on computational error in calculating exponential terms of a geometric series,” *J Math Comp Ed* Spring 2012, p131
- Ledford, Sarah “A surprisingly radical problem,” *Math Teach* Sep 2012, p114
- Poetzel, Adam “Three-dimensional printing: journey in visualization,” *Math Teach* Sep 2012, p103
- Berry, Stuart “The mathematical modeling of population change,” *Math Gaz* Jul 2012, p243
- Benko, David “Get rich slowly, almost surely,” *Math Gaz* Jul 2012, p226

- Greenwood, Veronique, "Q&A: The physics of cities," *Discover* Oct 2012, p52
- Rice, Adrian "Why ellipses are not elliptic curves," *Math Mag* Jun 2012, p163
- Koukoulopoulos, Dimitris "Arrangements of stars on the American flag," *Monthly* June 2012, p443
- Usiskin, Zalman "Misidentifying factor underlying Singapore's high test scores," *Math Teach* May 2012, p666
- Bryant, Lance "A variation on the money changing problem," *Monthly* May 2012, p359
- Cox, Barry "Drilling for polygons," *Monthly* Apr 2012, p300
- Hilton, Peter "Mathematics, models and Magz, Part 1: Patterns in Pascal's triangle and tetrahedron," *Math Mag* Apr 2012, p97
- Markram, Henry "The human brain project," *Scientific American* June 2012, p50
- Piatek-Jimenez, Katrina "Helping students become quantitatively literate," *Math Teach* May 2012, p692
- Parks, Amy "Obstacles to addressing race and ethnicity in the mathematics education literature," *J Research Math Ed*, May 2012, p238

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- Fabian, Andrew "Paradoxical Euler: Integrating by differentiating," *Math Gaz* Mar 2013, p61
- King, L.R. "An ellipse morphs to a cosine graph," *Coll Math J* Mar 2013, p117
- Osler, Thomas "Interesting subseries of the harmonic series," *Math Comp Ed* Fall 2012, p169
- Jantzen, Robert "On the mathematics of income inequality: splitting the Gini Index in two," *Math Mag* Dec 2012, p824
- Berry, Stuart "The mathematical modeling of population change," *Math Gaz* July 2012, p243
- Royer, Melvin "Gabriel's other possessions," *Primus* No4 2012, p338
- Gordon, Sheldon "Some surprising errors in numerical differentiation," *Primus* No6 2012, p437
- Dray, Tevian "Using differentials to differentiate trigonometric and exponential functions," *Coll Math J* Jan 2013, p17
- Shapiro, B. "A few riddles behind Rolle's theorem," *Monthly* Nov 2012, p787
- Weber, Eric "Understanding the derivative through the calculus triangle," *Math Teach* Nov 2012, p274
- Weiss, Michael "Thinking like a mathematician," *Math Teach* Nov 2012, p269
- Ebanks, Bruce "Looking for a few good means," *Monthly* Oct 2012, p658
- Chen Hongwei "Harmonic series meets Fibonacci sequence," *Coll Math J* May 2012, p237
- Gould, Henry "Double fun with double factorials," *Math Mag* Jun 2012, p177

Geometry

- Cook, William "An n-dimensional Pythagorean theorem," *Coll Math J* Mar 2013, p98
- King, L.R. "An ellipse morphs to a cosine graph," *Coll Math J* Mar 2013, p117
- Hoban, Ryan "Euclidean, spherical, and hyperbolic shadows," *Coll Math J* Mar 2013, p128
- Gonzalez, Gloriana "Geometric reasoning about a circle problem," *Math Teach* Apr 2013, p586
- Koshy, Thomas, "Pell walks," *Math Gaz* Mar 2013, p26
- Munakata, Mika "Transformational geometry at Guilin Garden, Shanghai," *Math Teach* Mar 2013, p496
- Khovanova, Tanya "Killer problems," *Math Mag* Dec 2012, p 815
- Fetter, Hans "A Polyhedron full of surprises," *Math Mag* Dec 2012, p334
- Bradley, Christopher "Conics twinned with two special circles," *Math Gaz* July 2012, p236
- Alexanderson, Gerald "Perplexities related to Fourier's 17 line problem," *Math Mag* Oct 2012, p243
- Frantz, Marc "A different angle on perspective," *Coll Math J* Nov 2012, p354

- Richardson, Kerri “Exploring quadrilaterals through flexible approaches,” *Math Teach* Nov 2012, p288
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- Beardon, A.F. “What is the most symmetric quadrilateral?” *Math Gaz* Jul 2012, p207
- Poetzal, Adam “Three-dimensional printing: journey in visualization,” *Math Teach* Sep 2012, p103
- Rice, Adrian “Why ellipses are not elliptic curves,” *Math Mag* Jun 2012, p163
- Augros, Michael “Rediscovering Pascal’s mystic Hexagon,” *Coll Math J* May 2012, p194
- Cox, Barry “Drilling for polygons,” *Monthly* Apr 2012, p300
- Cullinane, Michael “Helping mathematics students survive the post-calculus transition,” *Primus* Nov 2011, p669

Sets & Number Systems

- Sallows, Lee “On self-tiling tile sets,” *Math Mag* Dec 2012, p323

Abstract Algebra

- Beardon, A.F. “Frieze groups, cylinders, and quotient groups,” *Math Gaz* Mar 2013, p95
- Lesser, Lawrence “Uncommon connections with common numerators,” *Primus* Nov 2012, p634
- Bardzell, Michael “A ring construction using finite directed graphs,” *Primus* No5 2012, p428
- Sallows, Lee “On self-tiling tile sets,” *Math Mag* Dec 2012, p323
- Pla, Juan “On a sequence of algebraic formulae of Ramanujan,” *Math Gaz* July 2012, p201
- Schoyen, Richard “Password generation by the intersection of two functions,” *Math Comp Ed* Fall 2012, p190
- Barett, Lida “The Moore Method and the constructivist theory of learning: was R. L. Moore a constructivist?” *Primus* No1 2012, p75
- Lorch, John “Magic Squares and Sudoku,” *Monthly* Nov 2012, p759
- Eisermann, Michael “The fundamental theorem of algebra made effective: an elementary real-algebraic proof via Sturm chains,” *Monthly* Nov 2012, p715
- Weiss, Michael “Thinking like a mathematician,” *Math Teach* Nov 2012, p269
- Pla, Juan “On a sequence of algebraic formulae,” *Math Gaz* Jul 2012, p201
- Jones, Eric “Diophantine approximation and the irrationality of certain numbers,” *J Math Comp Ed* Spring 2012, p125
- Somchaipeng, Tongta “Using disks as models for proofs of series,” *Math Teach* Aug 2012, p46
- Cullinane, Michael “Helping mathematics students survive the post-calculus transition,” *Primus* Nov 2011, p669 lin &
- Siehler, Jacob “The finite lamplighter groups: a guided tour,” *Coll Math J* May 2012, p203
- Kohl, Timothy “When Abelian = Hausdorff,” *Coll Math J* May 2012, p213
- Hicks, Kenneth “Sums of reciprocals of polynomials over finite fields,” *Monthly* Apr 2012, p313
- Coleman, Ben “Game, set, math,” *Math Mag* Apr 2012, p83
- Miller, Steven “Picturing Irrationality,” *Math Mag* Apr 2012, p110
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Linear Algebra

- Sudbery, Anthony, “Dürer’s magic tesseract,” *Math Gaz* Mar 2013, p8
- Cook, William “An n-dimensional Pythagorean theorem,” *Coll Math J* Mar 2013, p98
- Martin, Carla “The extraordinary SVD,” *Math Mag* Dec 2012, p828
- Jones, Chris “New rules for NFL overtime,” *Math Mag* Oct 2012, p277
- Weiss, Michael “Thinking like a mathematician,” *Math Teach* Nov 2012, p269

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Analysis and Sets & Numbers

Fabian, Andrew "Paradoxical Euler: Integrating by differentiating," *Math Gaz* Mar 2013, p61
 Helmstutler, Randall "Finite topological spaces as a pedagogical tool," *Primus* No1 2012, p64
 Dray, Tevian "Using differentials to differentiate trigonometric and exponential functions," *Coll Math J* Jan 2013, p1
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History of Math

Khovanova, Tanya "Killer problems," *Math Mag* Dec 2012, p 815

Mathematics Education

Halcrow, Cheryl, "Online homework in Calculus 1: Friend or Foe?" *Primus* No8 2012, p664
 Herron, Sherry "A comparison of computer-assisted and traditional college algebra instruction," *J Comp Math* No3 2012, p249
 Fluck, Andrew, "Calculus in elementary school: an example of ICT-based curriculum transformation," *J Computers in Math and Science Teaching* v31 #2 2012, p159

Key

Coll Math J = The College Mathematics Journal
Discover = Discover
Hist Math = Historia Mathematica
Int J Math Ed = International Journal of Mathematical Education in Science and Technology
J Comp Math = Journal of Computers in Mathematics and Science Teaching
J Research Math Ed = Journal for Research in Mathematics Education
Math & Comp Ed = Mathematics and Computer Education
Math Gaz = Mathematical Gazette
Math Horiz = Math Horizons
Math Mag = Mathematics Magazine
Math Teacher = Mathematics Teacher
Monthly = The American Mathematical Monthly
Primus = Primus
Quantum = Quantum
Sch Sci & Math = School Science and Mathematics
Sc Amer = Scientific American