

THE AMERICAN MATHEMATICAL MONTHLY



VOLUME 127, NO. 3 MARCH 2020

Yueh-Gin Gung and Dr. Charles Y. Hu Award for 2020 to Gerald J. Porter for Distinguished Service to Mathematics Nancy Ann Neudauer	195
Algebraic Matroids in Action Zvi Rosen, Jessica Sidman, and Louis Theran	199
The Surprising Accuracy of Benford's Law in Mathematics Zhaodong Cai, Matthew Faust, A. J. Hildebrand, Junxian Li, and Yuan Zhang	217
Descartes Circle Theorem, Steiner Porism, and Spherical Designs Richard Evan Schwartz and Serge Tabachnikov	238
Equal Zones and Tautochrones Fred Kuczmariski	249

NOTES

The Midpoints Between Roots Reveal the Quartic Equation Javier Sánchez-Reyes	258
An Extension of Mantel's Theorem to k-Graphs Zoltán Füredi and András Gyárfás	263
A Determinant Proof of a Generalized Pythagorean Theorem Suk-Geun Hwang and Ki-Bong Nam	269

PROBLEMS AND SOLUTIONS 274

REVIEWS

<i>Prime Suspects: The Anatomy of Integers and Permutations</i> by Andrew Granville and Jennifer Granville and <i>99 Variations on a Proof</i> by Philip Ordning Jason Rosenhouse	283
---	-----

MATHBITS

257, Expected Number of Dice Rolls for the Sum to Reach n ; 273, A Short and Easy Proof of Morley's Congruence Theorem