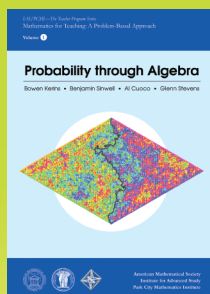


New Series from the American Mathematical Society

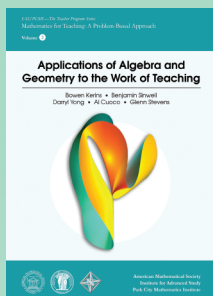


Probability through Algebra

Bowen Kerins, *Education Development Center Inc., Waltham, MA*, **Benjamin Sinwell**, *Pendleton High School, Anderson, SC*, **Al Cuoco**, *Education Development Center Inc., Waltham, MA*, and **Glenn Stevens**, *Cambridge, MA*

This book introduces readers to the algebraic properties of expected value and variance through a collection of problem sets designed to develop interconnected mathematical themes.

IAS/PCMI-The Teacher Program Series, Volume 1; 2015; approximately 175 pages; Softcover; ISBN: 978-1-4704-1925-7; List US\$29; AMS members US\$23.20; Order code SSTP/1



Applications of Algebra and Geometry to the Work of Teaching

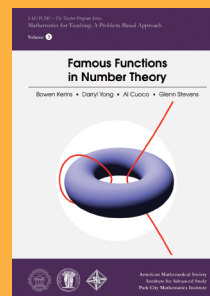
Bowen Kerins, *Education Development Center Inc., Waltham, MA*, **Benjamin Sinwell**, *Pendleton High School, Anderson, SC*, **Darryl Yong**, *Harvey Mudd College, Claremont, CA*, **Al Cuoco**, *Education Development Center Inc., Waltham, MA*, and **Glenn Stevens**, *Cambridge, MA*

This book uses a collection of problem sets to develop the use of complex numbers to investigate some questions that are at the intersection of algebra and geometry.

IAS/PCMI-The Teacher Program Series, Volume 2; 2015; approximately 205 pages; Softcover; ISBN: 978-1-4704-1924-0; List US\$29; AMS members US\$23.20; Order code SSTP/2

IAS/PCMI-The Teacher Program Series

This series presents materials from the IAS/PCMI Secondary School Teachers Program, an annual professional development program for teachers specializing in mathematics teaching for grades 3-12. Books in the series are designed to facilitate the SSTP program's goal of improving teacher knowledge via a problem-based approach to learning. Each volume includes a chapter on math concepts, a problem set, and facilitator notes, including solutions and practical tips for running a teacher training session. The series is invaluable for mathematics teacher training programs and for the continuing education of teachers already in practice.



Famous Functions in Number Theory

Bowen Kerins, *Education Development Center Inc., Waltham, MA*, **Darryl Yong**, *Harvey Mudd College, Claremont, CA*, **Al Cuoco**, *Education Development Center Inc., Waltham, MA*, and **Glenn Stevens**, *Cambridge, MA*

This book introduces readers to the use of formal algebra in number theory. Through numerical experiments, participants learn how to use polynomial algebra as a bookkeeping mechanism.

IAS/PCMI-The Teacher Program Series, Volume 3; 2015; approximately 216 pages; Softcover; ISBN: 978-1-4704-2195-3; List US\$29; AMS members US\$23.20; Order code SSTP/3

Titles in this series are co-published with the Institute for Advanced Study/Park City Mathematics Institute. Members of the Mathematical Association of America (MAA) and the National Council of Teachers of Mathematics (NCTM) receive a 20% discount from list price.