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

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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.


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.