



Proofs Without Words III: Further Exercises in Visual Thinking (Classroom Resource Materials)

Roger B. Nelsen

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Proofs without words (PWWs) are figures or diagrams that help the reader see why a particular mathematical statement is true, and how one might begin to formally prove it true. PWWs are not new, many date back to classical Greece, ancient China, and medieval Europe and the Middle East. PWWs have been regular features of the MAA journals *Mathematics Magazine* and *The College Mathematics Journal* for many years, and the MAA published the collections of *PWWs Proofs Without Words: Exercises in Visual Thinking* in 1993 and *Proofs Without Words II: More Exercises in Visual Thinking* in 2000. This book is the third such collection of PWWs.

The proofs in the book are divided by topic into five chapters: Geometry and Algebra; Trigonometry, Calculus and Analytic Geometry; Inequalities; Integers and Integer Sums; and Infinite Series and Other Topics. The proofs in the book are intended primarily for the enjoyment of the reader, however, teachers will want to use them with students at many levels: high school courses from algebra through precalculus and calculus; college level courses in number theory, combinatorics, and discrete mathematics; and pre-service and in-service courses for teachers.

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