Título: Problem - Solving And Selected Topics In Euclidean Geometry

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Sinopsis

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The book teaches in practice methods of analysis, synthesis, construction, and proof with specific problems, examples, and applications

Teaches mathematical thinking presented in the most elementary possible form for the solution or proof of every problem or statement of theorem

Presents main theorems of Euclidean Geometry with a discussion of the central ideas behind their proofs

Provides approximately 25 problems proposed by leading mathematicians or given in IMO's or short lists for IMO's or BMO's

Problem-Solving and Selected Topics in Euclidean Geometry: In the Spirit of the Mathematical Olympiads contains theorems of particular value for the solution of Olympiad-caliber problems in Euclidean Geometry. Selected geometric problems, which have been given in International Mathematical Olympiads (IMO) or proposed in short lists in IMO, are discussed. Additionally, a number of new problems proposed by leading mathematicians in the subject with their step-by-step solutions are presented. The book teaches mathematical thinking through Geometry and provides inspiration for both students and teachers.

From the Foreword: "_Young people need such texts, grounded in our shared intellectual history and challenging them to excel and create a continuity with the past. Geometry has seemed destined to give way in our modern computerized world to algebra. As with Michael Th. Rassias' previous homonymous book on number theory, it is a pleasure to see the mental discipline of the ancient Greeks so well represented to a youthful audience."