



Glimpses of Algebra and Geometry

By Toth, Gabor

Book Condition: New. Publisher/Verlag: Springer, Berlin | The purpose of Glimpses of Algebra and Geometry is to fill a gap between undergraduate and graduate mathematics studies. It is one of the few undergraduate texts to explore the subtle and sometimes puzzling connections between number theory, classical geometry and modern algebra in a clear and easily understandable style. Over 160 computer-generated images, accessible to readers via the World Wide Web, facilitate an understanding of mathematical concepts and proofs even further. Previous edition sold 2000 copies in 3 years; Explores the subtle connections between Number Theory, Classical Geometry and Modern Algebra; Over 180 illustrations, as well as text and Maple files, are available via the web facilitate understanding: Contains an insert with 4-color illustrations; Includes numerous examples and worked-out problems | 'A Number is a multitude composed of units' (Euclid) 'there are no irrational numbers at all' (Kronecker) Rationality, Elliptic Curves and Fermat's Last Theorem Algebraic or Transcendental? Complex Arithmetic Quadratic, Cubic, and Quartic Equations Stereographic Projection Proof of the Fundamental Theorem of Algebra Symmetries of Regular Polygons Discrete Subgroups of $\text{Iso}(\mathbb{R}^2)$ Möbius Geometry Complex Linear Fractional Transformations 'Out of nothing I have created a new universe' (Bolyai) Fuchsian Groups Riemann Surfaces...



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