

Experiencing Geometry Henderson

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the distinctive approach of henderson and taimina s volume stimulates readers to develop a broader deeper understanding of mathematics through active experience including discovery discussion writing fundamental ideas and learning about the history of those ideas a series of interesting challenging problems encourage readers to gather and discuss their reasonings and understanding the volume provides an understanding of the possible shapes of the physical universe the authors provide extensive information on historical strands of geometry straightness on cylinders and cones and hyperbolic planes triangles and congruencies area and holonomy parallel transport sss ass saa and aaa parallel postulates isometries and patterns dissection theory square roots pythagoras and similar triangles projections of a sphere onto a plane inversions in circles projections models of hyperbolic planes trigonometry and duality 3 spheres and hyperbolic 3 spaces and polyhedra for mathematics educators and other who need to understand the meaning of geometry

for undergraduate level courses in geometry henderson invites students to explore the basic ideas of geometry beyond the formulation of proofs the text conveys a distinctive approach stimulating students to develop a broader deeper understanding of mathematics through active participation including discovery discussion and writing about fundamental ideas it provides a series of interesting challenging problems then encourages students to gather their reasonings and understandings of each problem and discuss their findings in an open forum

the author s goal is to start a dialogue between mathematicians and cognitive scientists he discusses from a working mathematician s point of view the mystery of mathematical intuition why are certain mathematical concepts more intuitive than others to what extent does the small scale structure of mathematical concepts and algorithms reflect the workings of the human brain what are the elementary particles of mathematics that build up the mathematical universe the book is saturated with amusing examples from a wide range of disciplines from turbulence to error correcting codes to logic as well as with just puzzles and brainteasers despite the very serious subject matter the author s approach is lighthearted and entertaining this is an unusual and unusually fascinating book readers who never thought about mathematics after their school years will be amazed to discover how many habits of mind ideas and even material objects that are

inherently mathematical serve as building blocks of our civilization and everyday life a professional mathematician reluctantly breaking the daily routine or pondering on some resisting problem will open this book and enjoy a sudden return to his or her young days when mathematics was fresh exciting and holding all promises and do not take the word microscope in the title too literally in fact the author looks around in time and space focusing in turn on a tremendous variety of motives from mathematical memes genes of culture to an unusual life of a hollywood star yuri i manin max planck institute of mathematics bonn and northwestern university

winner euler book prize awarded by the mathematical association of america with over 200 full color photographs this non traditional tactile introduction to non euclidean geometries also covers early development of geometry and connections between geometry art nature and sciences for the crafter or would be crafter there are detailed instructions for how to crochet various geometric models and how to use them in explorations new to the 2nd edition daina taimina discusses her own adventures with the hyperbolic planes as well as the experiences of some of her readers includes recent applications of hyperbolic geometry such as medicine architecture fashion quantum computing

teaching and learning mathematics online second edition continues to present meaningful and practical solutions for teaching mathematics and statistics online it focuses on the problems observed by mathematics instructors currently working in the field who strive to hone their craft and share best practices with the community the book provides a set of standard practices improving the quality of online teaching and the learning of mathematics instructors will benefit from learning new techniques and approaches to delivering content new to the second edition nine brand new chapters reflections on the lessons of covid 19 explorations of new technological opportunities

classroom resource material allowing the integration of mathematics history into undergraduate mathematics teaching

the main purpose of this book is to inform the reader about the formal or axiomatic development of euclidean geometry it follows euclid s classic textelements very closely with an excellent organization of the subject matter and over 1 000 practice exercises provide the reader with hands on experience in solving geometrical problems providing

a historical perspective about the study of plane geometry this book covers such topics as other geometries the neutral geometry of the triangle non neutral euclidean geometry circles and regular polygons projective geometry symmetries inversions informal topology graphs surfaces and knots and links

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