ISOMETRIES OF THE PLANE

TRACY DOSWELL

Anormace. First we define different kinds of isometries of the plane. Then we prove that isometries of the plane are determined by one of two equations. Using these two equations, we can determine the only feur possible types of isometries of the plane: translations, rotations, reflections, and glidereflections.

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1. WHAT IS AN ISOMETRY?

An isometry is a distance-preserving transformation. In this paper, we consider isometries of the plane C.

Definition 1.1. A transformation $\alpha : \mathbb{C} \to \mathbb{C}$ is an isometry if for any two points $p, q \in \mathbb{C}$, the Euclidean distance $|\alpha(p) - \alpha(q)| = |p - q|$.

Surprisingly, there are only four types of isometries of the Euclidean plane, which together form a group under composition known as the Euclidean group of the plane. The next sections will formally define these four isometries and prove the classification theorem, which states that every isometry of the plane must be of one of these four types.

2. Translations and Rotations

Definition 2.1. A translation τ is a mapping from C to C defined by equations of the form

$$\begin{cases} x' = x + a \\ y' = y + b. \end{cases}$$

For any point x + iy in the plane, let $x' + iy' = \tau(x + iy) = x + a + i(y + b)$. We can rewrite this as $\tau : x \mapsto x + c$, where x = x + iy and c = a + ib. The transformation τ moves each point the same distance in the same direction.

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Proposition 2.2. A translation r is an isometry of the plane.

Date: July 21, 2009.

Plane Geometry An Approach Through Isometries

James T. Smith

Plane Geometry An Approach Through Isometries:

Plane Geometry, an Approach Through Isometries Dick Wick Hall, Steven Szabo, 1971 **Euclidean Geometry and Transformations** Clayton W. Dodge, 2004-01-01 This introduction to Euclidean geometry emphasizes transformations particularly isometries and similarities Suitable for undergraduate courses it includes numerous examples many with detailed answers 1972 edition Transformational Plane Geometry Ronald N. Umble, Zhigang Han, 2014-12-01 Designed for a one semester course at the junior undergraduate level Transformational Plane Geometry takes a hands on interactive approach to teaching plane geometry. The book is self-contained defining basic concepts from linear and abstract algebra gradually as needed The text adheres to the National Council of Teachers of Mathematics Principles and Standards for School Mathematics and the Common Core State Standards Initiative Standards for Mathematical Practice Future teachers will acquire the skills needed to effectively apply these standards in their classrooms Following Felix Klein s Erlangen Program the book provides students in pure mathematics and students in teacher training programs with a concrete visual alternative to Euclid's purely axiomatic approach to plane geometry. It enables geometrical visualization in three ways Key concepts are motivated with exploratory activities using software specifically designed for performing geometrical constructions such as Geometer's Sketchpad Each concept is introduced synthetically without coordinates and analytically with coordinates Exercises include numerous geometric constructions that use a reflecting instrument such as a MIRA After reviewing the essential principles of classical Euclidean geometry the book covers general transformations of the plane with particular attention to translations rotations reflections stretches and their compositions. The authors apply these transformations to study congruence similarity and symmetry of plane figures and to classify the isometries and similarities of the plane A New Look at Geometry Irving Adler, 2013-10-03 Richly detailed survey of the evolution of geometrical ideas and development of concepts of modern geometry projective Euclidean and non Euclidean geometry role of geometry in Newtonian physics calculus relativity Over 100 exercises with answers 1966 edition Geometry Turned On James King, Doris Schattschneider, 1997-10-30 Articles about the uses of active exploratory geometry carried out with interactive computer software Methods of Geometry James T. Smith, 2011-03-01 A practical accessible introduction to advanced geometry Exceptionally well written and filled with historical and bibliographic notes Methods of Geometry presents a practical and proof oriented approach The author develops a wide range of subject areas at an intermediate level and explains how theoriesthat underlie many fields of advanced mathematics ultimately lead to applications in science and engineering Foundations basic Euclidean geometry and transformations are discussed in detail and applied to study advanced plane geometry polyhedra isometries similarities and symmetry An excellent introduction to advancedconcepts as well as a reference to techniques for use inindependent study and research Methods of Geometry alsofeatures Ample exercises designed to promote effective problem solvingstrategies Insight into novel uses of Euclidean geometry More than 300 figures

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international research case studies and reports on actual school practice. This book will be of particular interest to mathematics educators and mathematicians who are involved in the teaching of geometry at all educational levels as well as to researchers in mathematics education Computer Vision, Imaging and Computer Graphics - Theory and Applications Gabriela Csurka, Martin Kraus, Leonid Mestetskiy, Paul Richard, José Braz, 2013-01-03 This book constitutes the refereed proceedings of the International Conference VISIGRAPP 2011 the Joint Conference on Computer Vision Theory and Applications VISAPP on Imaging Theory and Applications IMAGAPP on Computer Graphics Theory and Applications GRAPP and on Information Visualization Theory and Applications IVAPP held in Vilamoura Portugal in March 2011 The 15 revised full papers presented together with one invited paper were carefully reviewed and selected. The papers are organized in topical sections on computer graphics theory and applications imaging theory and applications information visualization theory and applications and computer vision theory and applications Geometric Function Theory Tom Carroll, 2024-12-11 This textbook provides a second course in complex analysis with a focus on geometric aspects It covers topics such as the spherical geometry of the extended complex plane the hyperbolic geometry of the Poincar disk conformal mappings the Riemann Mapping Theorem and uniformisation of planar domains characterisations of simply connected domains the convergence of Riemann maps in terms of Carath odory convergence of the image domains normal families and Picard s theorems on value distribution as well as the fundamentals of univalent function theory Throughout the text the synergy between analysis and geometry is emphasised with proofs chosen for their directness. The textbook is self-contained requiring only a first undergraduate course in complex analysis The minimal topology needed is introduced as necessary While primarily aimed at upper level undergraduates the book also serves as a concise reference for graduates working in complex analysis

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