Foundations of Geometry
Exercises

Section 17

Lemma 1 (Exercise 17.2). Let $\phi : \Pi \to \Pi$ be a map of a Hilbert plane into itself. Assume that $\overline{AB} \simeq \overline{\phi(A)\phi(B)}$ for any two points A, B. Then ϕ is a rigid motion.

Proof. it is clear that, if $A \neq B$, then $\phi(A) \neq \phi(B)$, hence ϕ is injective.

Let us prove that it is also surjective.

- If $A', B' \in Im(\phi)$ then $A'B' \in Im(\phi)$; in fact, a point C' in $A'B'$ is uniquely determined by the congruence class of $A'C'$ and $B'C'$; let C be the unique point on AB such that $\overline{AC} \simeq \overline{A'C'}$ and $\overline{BC} \simeq \overline{B'C'}$. Then $\phi(C) = C'$.
- Let A, B, C be non collinear points and let A', B', C' be their images $D' \in \Pi$ be any point, and let E' be a point such that $A' * E' * B'$; then the line $D'E'$ meets the image of ϕ in at least two points, by (B4), hence it belongs to the image.

We have now to show that ϕ preserves lines, betweenness and angles.

Let A, B, C be three points on a line, and assume that $A * B * C$. Let Γ and Δ be circles of radii AB and BC centered at A and C. Then Γ and Δ are tangent. the point $\phi(B)$ will be the unique point of intersection of $\phi(\Gamma)$ and $\phi(\Delta)$ (which are again circles, since ϕ preserves congruence of segments). Since the two circles are tangent then $\phi(A), \phi(B)$ and $\phi(C)$ are on a line. Moreover, since $\phi(A)\phi(C) \simeq \phi(A)\phi(B) + \phi(B)\phi(C)$ then $\phi(A) * \phi(B) * \phi(C)$

If $\angle ABC$ is an angle, then the triangle $\triangle\phi(A)\phi(B)\phi(C)$ is congruent to the triangle $\triangle ABC$ by I.8, hence $\angle ABC \simeq \angle\phi(A)\phi(B)\phi(C)$. □

Exercise (17.3). In a Hilbert plane Π, show:

(a) Any rigid motion with at least three noncollinear fixed points must be the identity.

(b) Any rigid motion is equal to the product of at most three reflections.

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Table of Contents Foundations Of Mathematics Chapter 1 Foundations Of Geometry

1. Understanding the eBook Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - The Rise of Digital Reading Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Advantages of eBooks Over Traditional Books
2. Identifying Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - User-Friendly Interface
4. Exploring eBook Recommendations from Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Personalized Recommendations
    - Foundations Of Mathematics Chapter 1 Foundations Of Geometry User Reviews and Ratings
    - Foundations Of Mathematics Chapter 1 Foundations Of Geometry and Bestseller Lists

5. Accessing Foundations Of Mathematics Chapter 1 Foundations Of Geometry Free and Paid eBooks
    - Foundations Of Mathematics Chapter 1 Foundations Of Geometry Public Domain eBooks
    - Foundations Of Mathematics Chapter 1 Foundations Of Geometry eBook Subscription Services
    - Foundations Of Mathematics Chapter 1 Foundations Of Geometry Budget-Friendly Options
6. Navigating Foundations Of Mathematics Chapter 1 Foundations Of Geometry eBook Formats
    - ePub, PDF, MOBI, and More
    - Foundations Of Mathematics Chapter 1 Foundations Of Geometry Compatibility with Devices
    - Foundations Of Mathematics Chapter 1 Foundations Of Geometry Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Highlighting and Note-Taking Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Interactive Elements Foundations Of Mathematics Chapter 1 Foundations Of Geometry
8. Staying Engaged with Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Foundations Of Mathematics Chapter 1 Foundations Of Geometry
9. Balancing eBooks and Physical Books Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Foundations Of Mathematics Chapter 1 Foundations Of Geometry
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Setting Reading Goals Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Fact-Checking eBook Content of Foundations Of Mathematics Chapter 1 Foundations Of Geometry
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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