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.

Foundations Of Mathematics Chapter 1 Foundations Of Geometry

RJ Alexander

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