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Plane Geometry and Algebra

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An epistemological manual of mathematics.

This manual presents the equivalence between the geometric theory of affine or Euclidean planes and the algebraic theory of bodies and their linear or quadratic equations. Laurent Lafforgue pedagogically illustrates how to connect algebra, geometry, and harmonic analysis in the context of number theory – an opportunity for this great mathematician to reflect on notions of theory and models. An important and accessible work of epistemology.