



A Background to Geometry: Natural, Synthetic and Algebraic

By T.G. Room

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2008.

Paperback. Book Condition: New. Reissue. 226 x 152 mm.

Language: English . Brand New Book ***** Print on Demand

*****.The central theme of the book is the development of the

idea of congruence, that relation between geometric figures

which is basic to ordinary Euclidean geometry. The text is

divided into four books corresponding to stages in the

development of a geometrical system from simple axioms: 1.

Geometry without numbers : the relations of order and sense. 2.

Geometry and counting : properties of the systems obtained by

repetitions of the operation of displacement. 3. Geometry and

algebra : the consequences of adjoining new points to the

system developed in Book 2. In particular the properties of an

algebraic field are deduced from the geometric axioms. 4.

Congruence : properties derived from the operation of reflexion.

An early introduction of parallels makes possible the drawing of

diagrams which resemble those of Euclid s geometry so that the

reader may see the broad outline of a proof from observable

properties of these diagrams. Particular geometrical systems

are explored and some general topics investigated in detail in

appendices following each section of the book.



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