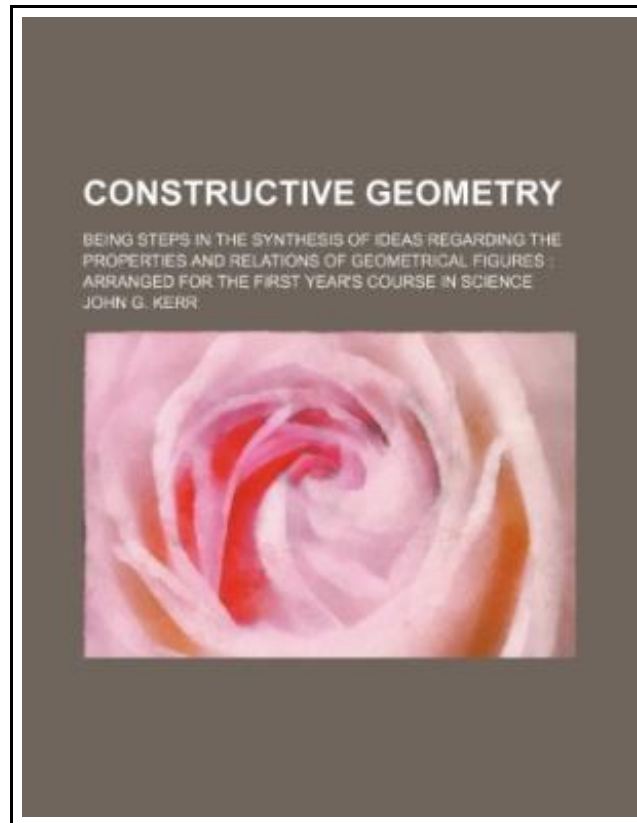# Constructive Geometry; Being Steps in the Synthesis of Ideas Regarding the Properties and Relations of Geometrical Figures Arranged for the First Year s Course in Science

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CONSTRUCTIVE GEOMETRY; BEING STEPS IN THE SYNTHESIS OF IDEAS REGARDING THE PROPERTIES AND RELATIONS OF GEOMETRICAL FIGURES ARRANGED FOR THE FIRST YEAR S COURSE IN SCIENCE

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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1904 Excerpt: .sides. Let a, b, c be the three sides (tig. 41). Draw a line B c equal to a. With B as centre and a line equal to c as radius describe a circle, and with c as centre and a line equal to b as radius describe a circle cutting the former in A. Join A B and A C. Fig. a However often the construction is repeated the same triangle will always result, hence we conclude that-- If two triangles have the three sides of the one equal to the three sides of the other, each to each, the triangles are equal in all respects . QUESTIONS AND EXERCISES 1. What condition must be fulfilled by the lengths of the given sides in order that the construction of the triangle may be possible. Attempt to construct triangles with the following data, in each case laying down the side a first. (i) a=10 cm. 6= 7 cm. c=3 cm. (ii) a=10 cm. 6= 6 cm. c=3 cm. (iii) a= 3 cm. 6=10 cm. c=5 cm. Observe and describe accurately the result. 2. Construct the triangle in which a=4 cm. 6=8 cm. t--693 cm. (B 129) E Measure the angles, note their values, and prove that their sum is 180. 3. Draw an isosceles triangle, having given a=/=10 cm. c= 6 cm. Find the angles A, B and c. Bisect c in M, join M A, and prove that the angles A M C, A...

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