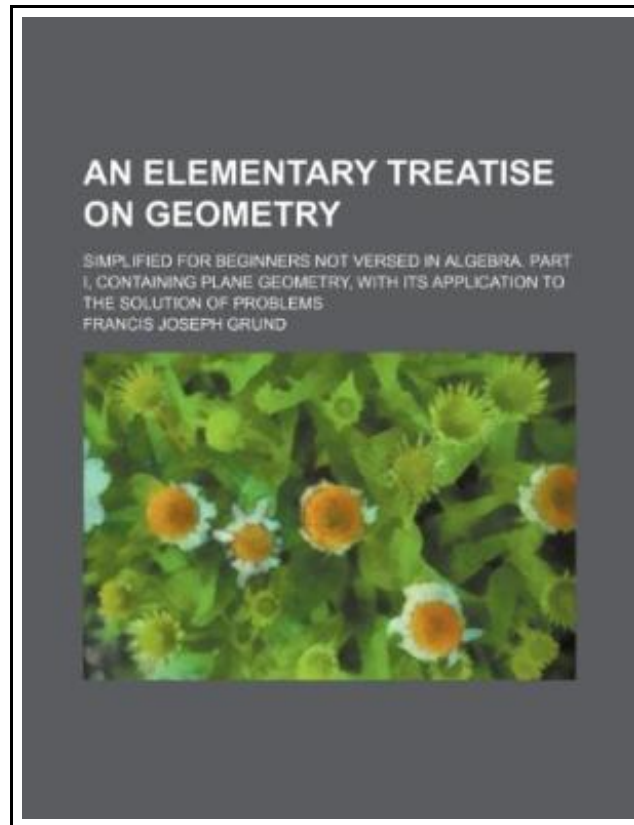# An Elementary Treatise on Geometry; Simplified for Beginners Not Versed in Algebra. Part I, Containing Plane Geometry, with Its Application to the Solution of Problems

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Reviews

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AN ELEMENTARY TREATISE ON GEOMETRY; SIMPLIFIED FOR BEGINNERS NOT VERSED IN ALGEBRA. PART I, CONTAINING PLANE GEOMETRY, WITH ITS APPLICATION TO THE SOLUTION OF PROBLEMS

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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. 1834 Excerpt: .between the two sides CB, DE, of the similar triangles ABC, AED? A. Yes. For to prove it of the two sides AC and AD, I need only take them for the bases of the two triangles; and to prove it of the sides CB, DE, I must take CB and DE for the bases; the reasoning would be the same as that I just went through. QUERY IX. From the ratio which you have proved to exist between the areas of similar triangles, can you now find out the ratio which exists between the areas of similar polygons 1 (See Definitions.) A. Yes. The areas of similar polygons are to each other, as the areas of the squares constructed upon the corresponding sides. The areas of the two similar polygons ABCDEF, abedef for instance, are to each other as the areas of the squares constructed upon the sides AB, ab, or as the areas of the squares upon the sides BC, be, c. For, by drawing in the polygon ABCDEF, the diagonals AC, AD, AE, and in the polygon abedef, the corresponding diagonals, ac, ad, ae, the triangle ACB, is similar to the triangle abc, the triangle ACD, to the triangle acd, c.; because, if the whole polygons ABCDEF, abedef, are similar, their similarly disposed parts must also be similar; and the same proportion which exists between their parts, must necessarily exist also between the whole polygons; consequently, as the areas of the triangles ABC,...

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