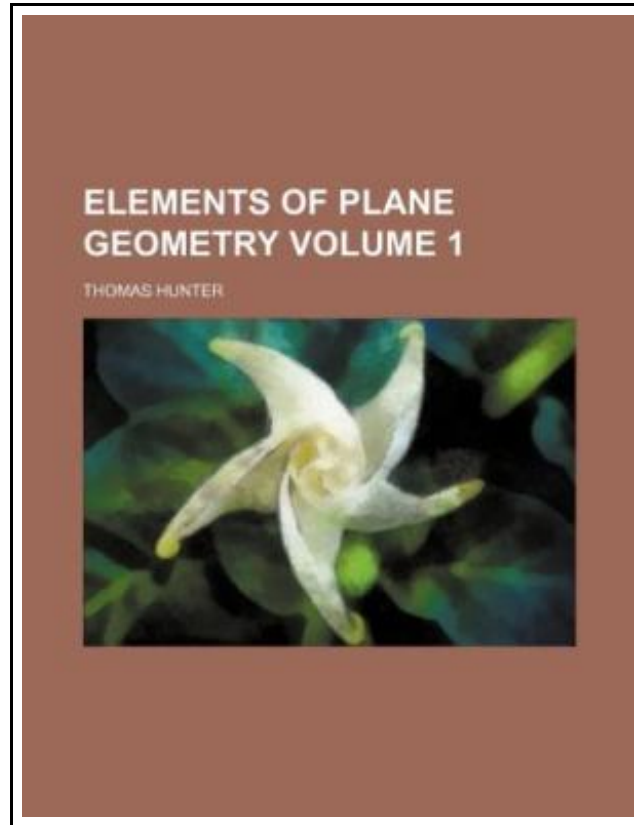


Elements of Plane Geometry Volume 1



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Reviews

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(Prof. Uriel Witting)

ELEMENTS OF PLANE GEOMETRY VOLUME 1



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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. 1878 Excerpt: .that $DB^2 + AC^2 = AB^2 + BC^2 + DC^2 + AD^2 - 4FE^2$. See Props. XXI. and XVI., Cor. The student commences $DC^2 + CB^2 = 2DE^2 + 2EC^2$; and following up this line of demonstration, the truth of the theorem is easily established. 14. It is required to prove that the triangles ABC, AEF, GBL, and CMN are all equal. A glance will show the equality of ABC and AEF. BH is made N equal to AB, and KC to AC. The student can now prove that the triangles LHB and KCM are each equal to ABC (Prop. IV., Bk. I.); and by Prop. IX he can demonstrate that LBH and KCM are respectively equal to LBG and CMN. 15. It is required to prove that the sum of the squares of AE and ED is equal the sum of the squares of CE and EB. Draw the diagonals CB and AD, and join the points E and F. See Props. IV. and XXI. 16. It is required to prove that $AD^2 + BC^2 = AC^2 + DB^2 + 2(AB \cdot CD)$. Erect the perpendiculars AE and BF, and produce CD to E and F. The students who can solve or demonstrate without the aid of the Key should be encouraged to do so; and if they can discover other and easier methods, so much the better. The teacher is recommended to make his review in Geometry by means of test examples. Indeed, two or three of these, carefully elected, compel a general review of the previous principles. pre BOOK III. DEFINITIONS. 1. An Arc is any portion...



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