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Elements of Geometry and Trigonometry from the Works of A.M. Legendre; Adapted to the Course of Mathematical Instruction in the United States

By Adrien Marie Legendre

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. 1885 Excerpt: .cV. But, base CBD x AH is equal to the volume of the prism CDB-A, and base cbdxah is equal to the volume of the prism cbd-p: hence, prism CDB-P: prism cbd-j:: CB which was to be proved. Cor. 1. Any two similar primus are to each other as the cubes of their homologous edges. For, since the prisms are similar, their bases are similar polygons (D. 16); and these similar polygons may each be divided into the same number of similar triangles, similarly placed (B. IV., P. XXVI.); therefore, each prism may be divided into the same number of triangular prisms, having their faces similar and like placed; consequently, the triangular prisms are similar (D. 16). But these triangular prisms are to each other as the cubes of their homologous edges, and being like parts of the polygonal prisms, the polygonal prisms themselves are to...



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