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Elements of Geometry with Notes

By John Radford Young

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. 1833 Excerpt: . From the point C as a centre with the radius CB, describe the semicircle FBE. Then, the angle B being right, AB is a tangent to the circumference; consequently (Prop. XXVI. Cor. 1.) $AE: AB:: AB: AF$; and therefore (Prop. XIX. B. V.), AE, AB are incommensurable, and consequently, AC, AB are also incommensurable; for if these had a common measure, the same also would measure their sum AE (Prop. XVII. B. V.), which has been proved to be incommensurable with AB: hence the diagonal of a square is incommensurable with its side. Scholium. It appears from the above demonstration that it would be in vain to attempt to express accurately by numbers the side and diagonal of a square; a fact which might, indeed, have been inferred from the third corollary to Proposition X. Book II. For, representing the side of a square by...

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