



New Elementary Geometry with Practical Applications (Paperback)

By Benjamin Greenleaf

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. 1874 Excerpt: . and it has also been proved, in the same proposition, that the circumscribed octagon, represented by i^2 - . so that $B = \frac{A^2 + 2A + 1}{A^2 + 1} = 3.3137085$. The $A^2 + 2A + 1$ inscribed and the circumscribed octagons being thus determined, we can easily, by means of them, determine the polygons having twice the number of sides. We have only in this case to put $A = 2.8284271$, $B = 3.3137085$; and we shall find $A = \sqrt{A \cdot B} = 3.0614674$, and $B = \frac{A^2 + 2A + 1}{A^2 + 1} = 3.1825979$. In like manner may be determined the area of polygons of sixteen sides, and thence the area of polygons of thirty-two sides, and so on till we arrive at an inscribed and a circumscribed polygon differing so little from each other, and consequently from the circle, that the difference shall be less than any assignable magnitude (Theo. XXVII. Cor.). The numerical expression for the surface,...

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