



Mathematical Handbook Containing the Chief Formulas of Algebra, Trigonometry, Circular and Hyperbolic Functions, Differential and Integral Calculus, and Analytical Geometry, Together with Mathematical Tables

By Edwin Pliny Seaver

RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. 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. 1907 Excerpt: . . . h and height equal to the ordinate on the left-hand side of it. The areas of the strips are hy_0 , hy_1 , hy_2 , . . . hy_n , and their sum, A , is approximately the area of the given space. 1181. $A-h(y_0 + y_1 + y_2 + \dots + y_n)$. (ii) Each strip regarded as a trapezoid the areas of which are $\frac{h}{2}(y_0 + y_1)$, $\frac{h}{2}(y_1 + y_2)$, . . . $\frac{h}{2}(y_{n-1} + y_n)$ and their sum $\frac{h}{2}(y_0 + y_1 + y_2 + \dots + y_{n-1} + y_n)$. This approximation is closer than that given by 1181. (iii) A still closer approximation is obtained by regarding the curve passing through the ends of each set of three successive ordinates as being approximately the arc of a parabola having its axis parallel to the ordinates. For this purpose, make n an even number. The area of the two strips lying between the ordinates y_0 and y_2 is $\frac{h}{6}(y_0^2 + 4y_1^2 + y_2^2)$.



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