

### 4.2 Definite Integrals: A Numerical Approach

Students receive introductory experience with this method, which involves the approximation of an integral with one width of the subintervals. This one width method answers the central question: How would the area under a curve appear?

We use the following figure to illustrate:

Let  $f$  be a function defined on the interval  $[a, b]$ . Let  $n$  be a positive integer.

$$\Delta x = \frac{b-a}{n}$$

where  $n$  is a positive integer,  $\Delta x$  is the width of the subintervals, and the subintervals appear to have width  $\Delta x$ .

**Example 1**

Evaluate  $\int_0^3 (x^2 + 2x + 3) dx$

$$\begin{aligned} \int_0^3 (x^2 + 2x + 3) dx &= \int_0^3 x^2 dx + \int_0^3 2x dx + \int_0^3 3 dx \\ &= \left[ \frac{x^3}{3} + x^2 + 3x \right]_0^3 \\ &= 14 \end{aligned}$$

$$\int_0^3 (x^2 + 2x + 3) dx \approx \sum_{i=1}^3 \frac{1}{3} (x_i^2 + 2x_i + 3) = \frac{1}{3} (1 + 2 + 3) + \frac{1}{3} (4 + 4 + 6) + \frac{1}{3} (9 + 6 + 9) = 14$$

We will now explore the numerical approximation by a function. We start by using the approximation with  $n = 4$  and  $\Delta x = 0.5$ . Note the area between the function and rectangles and rectangles themselves.



# Calculus Maximus Notes 4 2t Def Int Num Int 4 2

**D Keegan**



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*The Columbia Encyclopedia ... ,1942*

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