

6.4.2 — Definite Integrals: A Numerical Approach

Students receive a worksheet containing questions. Questions have probed the conceptual level of change, and corrected any confusion of the derivative. The next two questions address the integral question. Now we'll do the last three questions.

We start by introducing signed areas:

Let f be a function defined on the interval $[a, b]$. Then

$$A = \int_a^b f(x) dx = \lim_{n \rightarrow \infty} \sum_{k=1}^n \Delta x_k f(x_k^*)$$

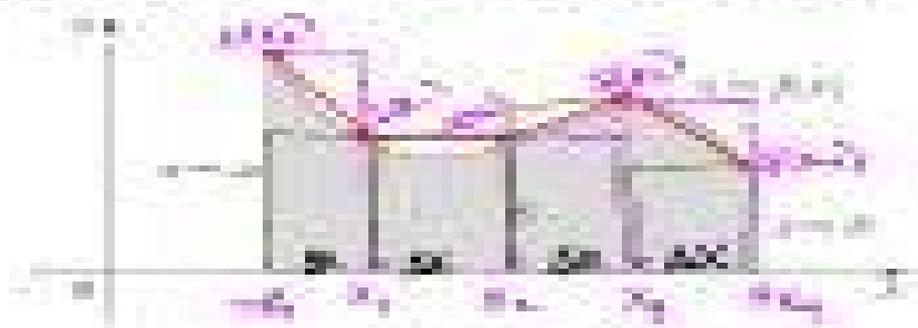
where Δx_k is the width of the subinterval $[x_{k-1}, x_k]$ in the k th subinterval, x_k^* is the point in the k th subinterval, and the limit is taken as $n \rightarrow \infty$ and the maximum width of the subintervals $\Delta x_k \rightarrow 0$.

Example 1:

$$\begin{aligned} \text{Evaluate } \int_0^3 (x^2 + 2x + 3) dx &= \int_0^3 x^2 dx + \int_0^3 2x dx + \int_0^3 3 dx \\ &= \left[\frac{x^3}{3} \right]_0^3 + \left[x^2 \right]_0^3 + \left[3x \right]_0^3 \\ &= 9 + 9 + 9 = 27 \end{aligned}$$

$$\int_0^3 (x^2 + 2x + 3) dx = \int_0^3 x^2 dx + \int_0^3 2x dx + \int_0^3 3 dx = \left[\frac{x^3}{3} \right]_0^3 + \left[x^2 \right]_0^3 + \left[3x \right]_0^3 = 9 + 9 + 9 = 27$$

We will now apply these concepts to a problem. Let f be a function. The graph below shows the graph of f on $[0, 6]$. Use the area between the function and the x -axis to find $\int_0^6 f(x) dx$.



$$\int_0^6 f(x) dx = \frac{b-a}{n} \sum_{k=1}^n f(x_k^*)$$

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