

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 x is partitioned into n subintervals, Δx_k is the k th interval's duration, and the function's value is sampled within subinterval k and is

Example 1:

$$\begin{aligned} \text{Evaluated on } \int_0^3 (x^2 + 2x + 3) dx &= \int_0^3 (1^2 + 2(1) + 3) dx \\ &= \int_0^3 (1 + 4 + 9) dx \\ &= 14 \end{aligned}$$

$$\begin{aligned} \text{or } \int_0^3 (x^2 + 2x + 3) dx &= \int_0^3 x^2 dx + \int_0^3 2x dx + \int_0^3 3 dx \\ &= \left[\frac{x^3}{3} \right]_0^3 + \left[x^2 \right]_0^3 + \left[3x \right]_0^3 \\ &= \frac{27}{3} + 9 + 9 = 14 \end{aligned}$$

We will now apply these concepts to a function. We start with the graph of a function $f(x)$ and a grid. Now the area between the function and the x-axis is



$$A \approx \sum_{k=1}^n \frac{b-a}{n} f(x_k^*)$$

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