Formulae for Approximations

Consider a function f on an interval [a,b], a < b.

Let $\Delta x = \frac{b-a}{n}$, and *n* be a positive integer.

Definitions

The following sums approximate $\int_{a}^{b} f(x) dx$.

Left Rule Approximation

$$LEFT(n) = \sum_{k=1}^{n} f(a + (k-1)\Delta x) \Delta x$$

2 Right Rule Approximation

$$RIGHT(n) = \sum_{k=1}^{n} f(a + k\Delta x) \Delta x$$

3 Mid Rule Approximation

$$MID(n) = \sum_{k=1}^{n} f(a + (k - \frac{1}{2})\Delta x)\Delta x$$

Numerical Approximation

Daniela Niemeyer



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