

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 $\int_a^b f(x) dx$.

1 **Left Rule Approximation** $\text{LEFT}(n) = \sum_{k=1}^n f(a + (k-1)\Delta x) \Delta x$

2 **Right Rule Approximation** $\text{RIGHT}(n) = \sum_{k=1}^n f(a + k\Delta x) \Delta x$

3 **Mid Rule Approximation** $\text{MID}(n) = \sum_{k=1}^n f(a + (k - \frac{1}{2})\Delta x) \Delta x$

Numerical Approximation

Thomas Griffiths



Numerical Approximation:

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