## **Elements of Numerical Integration: Quadrature and Interpolat**

## **Numerical Quadrature Formula**

This diagram illustrates the relationship between the numerical quadrature formula and its components. It shows how the integral of a function over a given interval can be approximated using the sum of weighted function values at specific points.



## **Newton-Cotes Formulae**

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representation of the closed and open Newton-Cotes formulae, highlighting the differences in node selection.

