

$$= \left| \sum_{i=0}^{x-1} \int_{x_i}^{x_{i+1}} f(x_i) - \left(\frac{f(x_{i+1}) + f(x_i)}{d} \right) \right| dx = \left| \sum_{i=0}^{x_{i+1}} \int_{x_i}^{x_{i+1}} f(x_i) - \left(\frac{f(x_{i+1}) + f(x_i)}{d} \right) \right| dx = \left| \frac{f(x_i)}{dx_i} + \frac{f'(x_i)}{dx_i} + \frac{f'(x$$

 x_{i} $= \left(f'' \left(\xi_i \right) \frac{(x-x_i)^3}{6} - f'' \left(\chi_i \right) \frac{h^2}{4} \times \right) \left| \chi_i \right|^2$ $= \ell''(S_i) \frac{h^3}{6} - \ell''/\gamma_i \frac{h^3}{4}$ = $\int_{i=0}^{N-1} f''(s_i) \frac{h^3}{6} - f''(N_i) \frac{h^3}{4} =$ $\leq \frac{2}{(5)} \left[f''(5) \frac{h^3}{6} - f'''(/2i) \frac{h^3}{4} \right] \leq$ $\leq \left| f''(\xi_i) \frac{h^3}{6} - f''(\eta_i) \frac{h^3}{4} \right| \cdot N \leq$ $M_2 = \sup_{x \in \{a,b\}} f''(x)$ < $\left(M_2 \frac{h^3}{6} - M_2 \frac{L^3}{4}\right) \cdot \mathcal{N} \leq M_2 \mathcal{N} \left(-\frac{h^3}{12}\right) \leq$ $\leq M_2 N h^2 \cdot (b-a) \leq M_2 \frac{h^2}{12} (b-a)$ 2ab 9. Find on integral f(x) on XE[a, b]. s) Find using rectangle's formula 2) Using trapezaid's formula (2) ¥-11

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