Investion interpolacity
Treader March 23, 2021
S327M

$$f(x) = ? \longrightarrow hu(x) = ?$$

 $y = f(?)$
I) hackluidistautua tablica $f(x_1) = y_1$, i=0...N
 $Y = f(x)$, $x = ?$
Discriming $|x_1| = |x_1| = |x_1|$
 $y = f(x)$, $x = ?$
 $y = f(x) = x_1 - |x_1|$
 $y = f(x) = y_1$, $y = y_1 + y_1 + y_1 + y_2$ available y_1
 $f(x) = y_1 = f(x_1)$
 $f(x) = Y = f(x + y_1)$
 $f(x) = f(x + y_1)$

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$$\begin{array}{c} \text{NUM. DIFERENCIRANIE} \\ \text{f(x)} & f^{(u)}(x) = ? \\ \text{f(x)} & f^{(u)}(x) = ? \\ \text{f(x)} & \text{Ru}(x) = f(x) - Lu(x) \\ \text{f(x)} & \text{Ru}(x) = f(x) - Lu(x) \\ \text{f(x)} & \text{Ru}(x) = (f(x) - Lu(x)) \\ \text{f(x)} & \text{Ru}(x) = (f(x) - Lu(x)) \\ \text{I HVM:} & g^{2}g & g^{2} - 5g^{2} + 2g + 2 \\ \text{Iu}(x) = f_{0} + g - 2f_{0} + \frac{g(g_{1})}{2} \sum_{i=1}^{2} f_{i} + \frac{g(g_{2})}{2} \sum_{i=1}^{3} g_{i} + \frac{1}{2} \sum_{$$

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$$S_{23}^{23} = \sum_{j=0}^{N} C_{i}^{j} \left(\frac{f(x_{1} \times c_{1} \dots \times c_{n})}{g(x_{1})} \right)^{j} \cdots (x_{n})^{j} (x_{n}) = \frac{g(x_{1})}{g(x_{1})} = \frac{g(x_{1})}{g($$

$$= -\ell_{1} \cdot (-2\ell_{1}) - \dots \cdot (-n\ell_{n}) = (-\ell_{1})^{n} \cdot n! \cdot \ell_{n}^{n}$$

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$$f'(x_0) - h'(x_0) = \frac{f^{(u+i)}(s)}{(u+i)!} \quad (-i)^{u} \cdot u! \cdot h' = \frac{f^{(u+i)}(s)}{n+1} \quad (-i)^{u} h'$$

$$h \text{ using } \to R_H \text{ using } h$$

$$\to R_F \text{ vecla}$$

$$F(x_{0}) = \frac{F(x_{1}) - F(x_{0})}{R}$$

$$|R_{w}| \leq |\frac{F''(5)}{2} - \frac{R_{1}}{2}| \leq \frac{1}{2} \leq \frac{1}{2}$$

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$$|R_{w}| \leq \frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2} \leq \frac{1}{2}$$

$$R = R_{m} + R_{R} = \frac{N_{2}R_{1}}{2} + \frac{2}{R} = \frac{1}{2}$$

$$R_{1} = \frac{M_{2}}{2} - \frac{2}{R^{2}} = 0$$

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$$R_{1} = \frac{M_{2}}{2} - \frac{1}{R^{2}} = 0$$

$$f'(x_{0}) = f(x_{0} + t_{0}) = f(x_{0}) + t_{0} + \frac{t_{0}^{2}}{2} + \frac{t_{0}^{2}}{2$$

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$$f'(x_{0}) = \frac{f(x_{0}-h) - 2f(x_{0}) + f(x_{0}-h)}{h^{2}}$$

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$$f(x_{0}-k) = f(x_{0}) - h \cdot f'(x_{0}) + \frac{h^{2}}{2} \cdot f''(x_{0}) - \frac{h^{2}}{3} \cdot f''(x_{0}) + \frac{h^{4}}{24} \cdot f''(s_{0})$$

$$f(x_{0}+k) = f(x_{0}) + h \cdot f'(x_{0}) + \frac{h^{2}}{2} f''(x_{0}) + \frac{h^{3}}{3} \cdot f''(x_{0}) + \frac{h^{4}}{2u} \cdot f''(s_{0})$$

$$-2f(x_{0}) = -2f(x_{0})$$

$$f(x_{0}-k) - 2f(x_{0}) + f(x_{0}+k) = h^{2} f''(x_{0}) + \frac{h^{4}}{12} \cdot \left(f''(s_{0}) + f''(s_{0})\right)$$

$$f''(x_{0}) = \frac{f(x_{0}-k) - 2f(x_{0}) + f(x_{0}+k)}{2u} - \frac{h^{2}}{2u} \cdot f''(s_{0}) + \frac{h^{4}}{12} \cdot \left(f''(s_{0}) + f''(s_{0})\right)$$

RM

$$\frac{1}{244} = \frac{1}{4} \frac{1}{24} \frac{1}{4} \frac{1}{4}$$