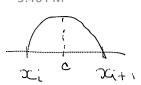


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i= 0,--, v F' ; ma n+1 nulu

uri = n intervala ; F zadonojava Rolan teoremo => F'(x/ima n nula

F(un) (n) jua bar 1 nuhu na (yi,yz)

Mi= un fx, xom, xu Y2= wax { x, x0,.., xn}

$$F(\overline{x}) = 0 = f(\overline{x}) - Lu(\overline{x}) - \frac{f(un)(\overline{x})}{(un)!} \cdot Wun(\overline{x})$$

$$F(\overline{x}) = 0 = f(\overline{x}) - \ln(\overline{x}) - \frac{f(un)(\overline{x})}{(un)!} \cdot \text{Wun}(\overline{x})$$

$$\Rightarrow \left[f(\overline{x}) - \ln(\overline{x}) - \frac{f(un)(\overline{x})}{(un)!} \cdot \text{Wun}(\overline{x})\right] \cdot \text{Sefy(i,yz)}$$

neax (form (x) = Mun

[Ru(x) = (f (x) - Lu(x)) \leq \frac{Mum}{(n=)} \cdot [Wum(x)]

Mython int. poly sa podeferim razlikama

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[Xio]

$$f[xi] = f(xi)$$

$$f[xi,xin] = \frac{f(xin) - f(xi)}{f(xin - xi)}$$

$$PR reda 1$$

$$f[xi, xin, xin] = \frac{f[xin, xin] - f[xi, xin]}{xin - xi}$$

reda 2

f[xi,] xite] - f[xi,] xxi - f[xi,] xite]

xite -xi

· 2011, sa nebitan redosted

* PR reda K se pouvoéu vraduosti funkcije u avakovima lapua je edredoua itraduana formulani:

$$f(x_0,...,x_E] = \sum_{i=0}^{K} \frac{f(x_i)}{f(x_i-x_i)}$$

Dokaz:

$$\frac{1}{1+i} = \frac{f(\alpha x) - f(\alpha x)}{f(\alpha x)} = \frac{f(\alpha x)}{f(\alpha x)} + \frac{f(\alpha x)}{f(\alpha x)}$$

$$= \frac{1}{1+i} = \frac{f(\alpha x)}{f(\alpha x)}$$

$$= \frac{1}{1+i} = \frac{f(\alpha x)}{f(\alpha x)}$$

\$ [xo,..., \and = \frac{\frac{1}{2} \frac{1}{2} \frac{

$$= \frac{1}{2\omega - 2\omega} \left[\sum_{i=1}^{N} \frac{f(\alpha i)}{\bigcap_{i=1}^{N} (\alpha i - \alpha i)} - \sum_{i=0}^{N-1} \frac{f(\alpha i)}{\bigcap_{i=1}^{N} (\alpha i - \alpha i)} - \sum_{i=0}^{N-1} \frac{f(\alpha i)}{\bigcap_{i\neq i}^{N-1} (\alpha i - \alpha i)} - \frac{f(\alpha i)}{\bigcap_{i\neq i}^{N-1} (\alpha i - \alpha i)} - \sum_{i=1}^{N-1} \frac{f(\alpha i)}{\bigcap_{i\neq i}^{N-1} (\alpha i - \alpha i)} - \sum_{i=1}^{N-1} \frac{f(\alpha i)}{\bigcap_{i\neq i}^{N-1} (\alpha i - \alpha i)} \right]$$

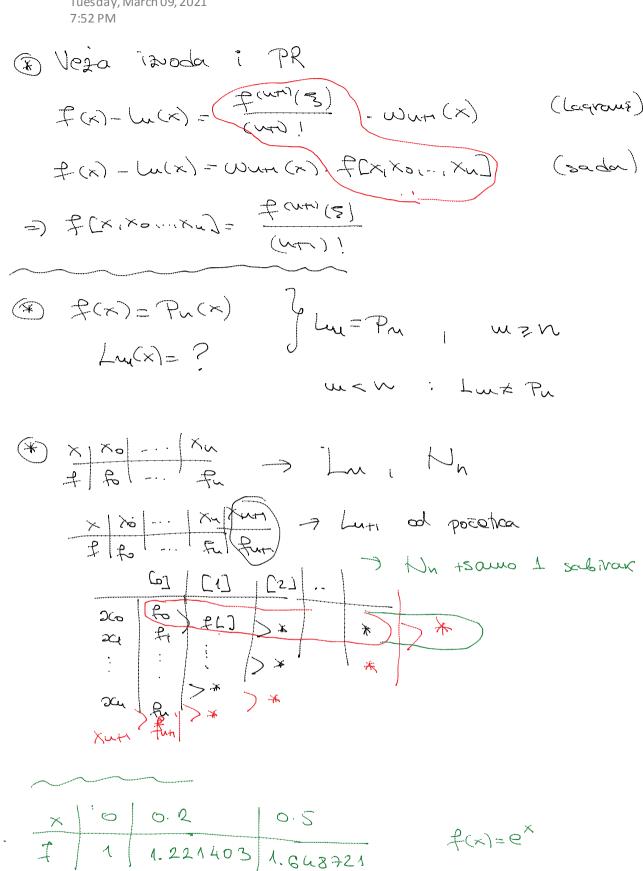
Tuesday, March 09, 2021

7:25 PM $= \frac{1}{3u - x_0} \left[\frac{f(x_0)}{f(x_0 - x_0)} - \frac{f(x_0)}{f(x_0 - x_0)} + \frac{f(x_0)}{f(x$

 $(\alpha_{ij}) = \sum_{i=0}^{N} \frac{\omega_{im}(x)}{(x-x_{i}) \cdot \omega_{im}(x)} \cdot f(x_{i})$ $(\alpha_{ij}) = \sum_{i=0}^{N} \frac{(x-x_{i})}{(x-x_{i})}$ $(\alpha_{ij}) = \sum_{i=0}^{N} \frac{(x_{i}-x_{i})}{(x_{i}-x_{i})}$ $(\alpha_{ij}) = \sum_{i=0}^{N} \frac{(x_{i}-x_{i})}{(x_{i}-x_{i})}$ $f(x)-L_{\chi}(x) = f(x) - \omega_{\xi, t}(x) - \sum_{i=0}^{\chi} \frac{f(xi)}{(x-xi) \cdot \tilde{h}(xi-xi)}$ $= W_{KH}(x) \left(\frac{f(x)}{h(x-xi)} \right) \left(\frac{f(x)}{h(x-xi)} \right) \left(\frac{f(x)}{h(x-xi)} \right) \left(\frac{f(x)}{h(x-xi)} \right)$ F[xo, xx] 7(x, xo, ..., xx) = Wence). F[x, xo, ... xk] Lu(x) = Lo(x) + (L(x) - Lo(x)) + -.. + (Lu(x) - Ln-(x)) Lry - 18 2011, 200 Lne (x) - Lne-c(x) - stepena m xo..., xun : Lm (xi)= f(=i) $(x) \qquad \qquad (x) \qquad \qquad (x) \qquad (x) \qquad (x) \qquad (x - x_j) \qquad (x - x$ Lu(x) - Lu-1(x) = Qu. Wm(x) Lu(xu) - Lne-1(xu) = Que (xu) (xu)

1

+(xu) - Lne-1(xu) = Wm(xu). +(xo, ..., xu) = Que = f[xo,..., xun] => Lm(x) - Lm-1(x) = \$[x0,11, xm]. Wm(x) $=)/Ln(x) = f(x_0) + f[x_0, x_1] \cdot (x - x_0) + f[x_0, x_1, x_2](x - x_0)(x - x_1)$ +.... + F[xo....xu](x-xo)....(x-xn-1)



$$f$$
 | 1 | 1.221403 | 1.648721
Lagraiz $L_2(x) = 0.634757 \times^2 + - - \cdot \cdot$
Notice: $L_2(x) = 0.634756 \times^2 + - - \cdot \cdot$
greska Radina