DAYISAL ANALIZ

Ana Bashklar:

1_ matlab

2-matrisler

3 - Determinant

4-Chio Vantemi

5 - Gauss Yöntemi

6- Gauss Jordan Yout.

7- Cromer Yantemi

8-Ters motris Vontani

9-LU Youtemi

10- Jacobi Vont,

11- Gauss-Séidel Yant.

12 - Ait Wan Therosyon yant.

13-Bosit îterasyon Yantemi.

14- Yarilana (Besaction) Vant.

15_ Wisis (secont) yout,

16 - En Kilfille Koreler Känt.

17-Newton Raphson

18-Regula Falsi Yent.

18-Kuadratik Enters.

20-Garge-Newton

21-Sonly Furkler

22-Dogrus-1 Enterpolayon

23 - Ara Deger Yentemi.

- Polinom Enterpo. - Laguage Enterpo.

24- Seyisal Integral - Yenule (Trapes)

- Simbon Kuroli.

25 - Sysel Tiller

YARILAMA YÖNTEMI

* f(x) he f(x) 2nt isorel (o'molder-* islamer | x-x-1 | & E. olduğunda islam sonlandırılır ve liste değarin x o'duğunu tabul edilir.

fixi = x3 2x2 6x+3=0 denkleminin Fickeil ordiginde Broke schip
oldugu bilinmektedir. E=0,06 hota ile hesoplayinz

f(-1) = -2 f(0) = 3 $\Rightarrow 2it$ isordien div.m. $C_{k} = \frac{-1+0}{2} = -0.5 \Rightarrow f(C_{k}) = f(-0.5) = 0.275$ f(0) = 3 f(

 $(k = \frac{-0.5 - 1}{2} = -0.75 \Rightarrow f(-0.75) = \frac{-0.79688}{(\text{neg.tif})} \Rightarrow -0.75 \leq \text{deven}$

 $Q = \frac{-0.75 - 0.5}{2} = -0.625 \Rightarrow f(-0.625) = -0.21289 + (-0.625) = -0.21289 + (-0.625) = -0.625$

Ca = -0,625-0,5 = -0,5625 = f(0,562s) = 0,0758 =)-0,628 x2-0,562s 1-0,625+0,5625 | (0,0625) = 0,0758 =)-0,628 x2-0,562s

 $X_{i+1} = X_i - \frac{(x_i - x_{i-1})^2}{(y_i - y_{i-1})^2}$ KIRI'S YONTEM" f(x)= e-x =0 dontlaminin totlaini (0,1) areliginde Kins yant. happ. f(0) = 1 > 2th liserellar f(1) = -0,632120599 fis + = + fin y = -0,63212- $\frac{1}{2} = \frac{1}{12} - \frac{1}{12} -$ J = -0,6302 $\frac{\chi_{2}}{3^{2}-4} = \frac{\chi_{2}-\chi_{1}}{3^{2}-4} = 0.61299 - \frac{(0.612699-1)}{(-0.670812+0.63212)} = \frac{(0.612699-1)}{(-0.670812+0.63212)} = \frac{(0.612699-1)}{(-0.670812+0.63212)}$ = 0,563838 x= 0,61299 Y=-0,09 08/23 1 kg-x1 = 10,563838-0,612699 = 0,048861 \$ = 0,563838 y=0,0058297 1x-x,1 = 10,56A170-0,638381 =0,033272 · X = 0,669190 1x-41 = 0,567 143 -0,671901 = 27.10-5 · X= 0567147

(620m 1: 63reu)

EN KUGIK KARELEIZ YÖNTEMI !

· 1/ = 0,5691112

14-51=0

 $y + \frac{1}{4} = \frac{1}{8}$ $y + \frac{1}{4} = \frac{1}{4}$ $y + \frac{1}{4} = \frac{1}{4}$ y +

 $\frac{\left(\frac{526m}{2} + \frac{2}{10}\right)}{n\left(\frac{5}{2} + \frac{1}{10}\right) - \left(\frac{5}{2} + \frac{1}{10}\right) - \left(\frac{5}{2} + \frac{1}{10}\right)}$ $\frac{n}{n} = \frac{4(152) - 22 \cdot 25}{146} - \frac{1}{12} + \frac{1}{10}$ $\frac{4(152) - 22 \cdot 25}{146} - \frac{1}{12} + \frac{1}{10}$ $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$ $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$ $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$ $\frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12} + \frac{1}{12}$

ENTON RAPHSON VSNTEMI : => x = x0 - f(x) - 3 x+6x713b-20 bir Kibin x=2 about N-R (le orsting) = f(n) = 38) > (Iterasyon soy151=3) $X = 2 - \frac{f(2)}{g(2)} = 2 - \frac{38}{49} = 1,224$ x2 = 1,224 - \frac{\frac{\frac{(1,224)}}{\P(\langle(1,224))}}{\P(\langle(1,224))} = 1,224 - \frac{6,734}{32,182} = 1,014 $\frac{1}{3} = \frac{1}{1014} - \frac{f(1,014)}{f^{1}(1,014)} = \frac{1}{1014} - \frac{0,893}{28,25} = \frac{1}{1,00006383} \approx \frac{1}{2}$ GEORGE-NEWTON ENTERPOLASYONIS! *P(x) = y + (x-x) + (x-x) + (x-x) (x-x) (x-x) + --- + (x-x) (x-x) . (x-x).

 $\frac{x}{h=2} - \frac{x}{y} = \frac{x}{44} + \frac{x}{6} + \frac{x}{8} = \frac{x}{10} + \frac{x}{10} = \frac{x}{10} =$

×	4	29	23	D34
2	10	40	32	S
4	60	72	32	
6	the second		32	0
8	226	136		
10	362			

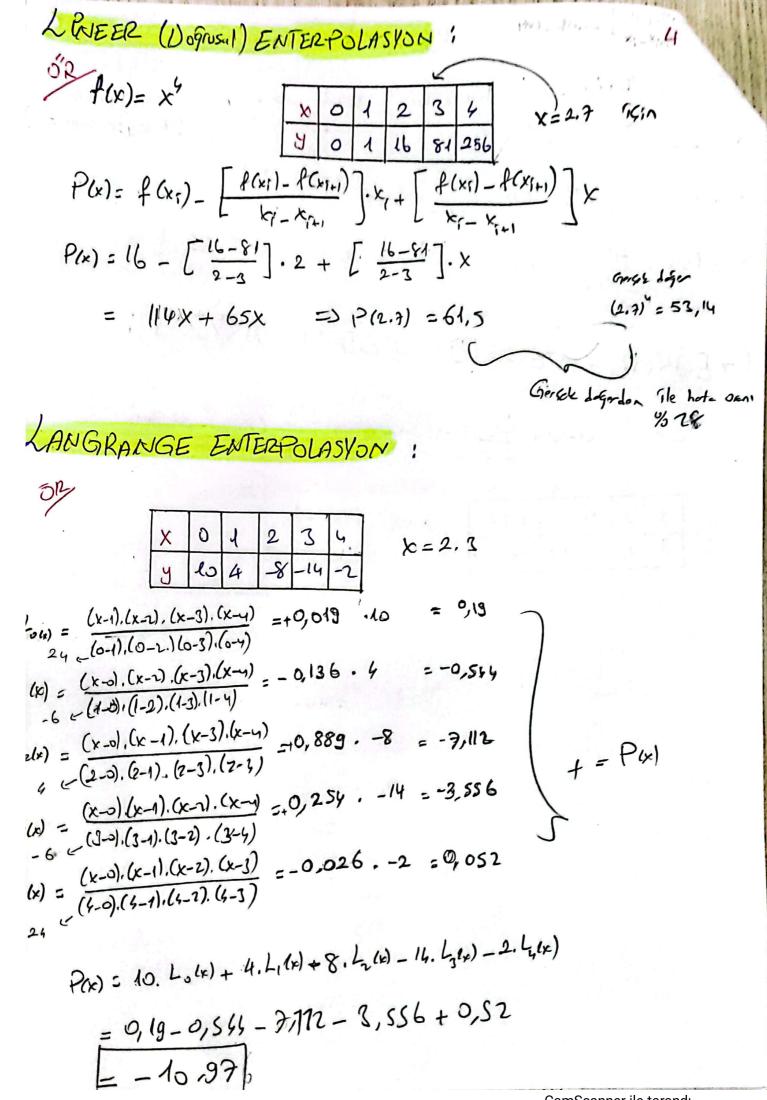
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$$P(x) = y_0 + \frac{\Delta y_0}{h} \cdot (x + x) + \frac{\Delta y_0}{2 \cdot h^2} \cdot (x - x_0) \cdot (x - x)$$

$$= 10 + \frac{40}{2} \cdot (x - x) + \frac{32}{2 \cdot 4} \cdot (x - x) \cdot (x - 4)$$

$$= 10 + 20x - 20 + 4(x^2 - 6x + 8)$$

$$P(x) = 4x^2 - 4x + 2$$

 $P(3) = 36 - 12 + 2$
 $= 26$



CamScanner ile tarandı