RANA NUR OKTAY - Sayusal Analiz Darsi 2. Boker =>

L) x3-2x2-5=0 [2,4]

itno	x-alt	fix-alt)	x-ust	+1x-cot)	x-652	fix-Lot
1	2	- 5	4	27	3	4
2	2	-5	3	4	2,5	-1,875
3	2,5	-1,875	3	4	2,75	0,671875
4	2,5	-1,875	2,75	0,671775	2,625	-0,693359375

- Gremore sain f(2). f(3) 20 anale

f(215) = 15,625-12,5-5= -1,875

f12151=-1,275 +'11 gelmeli.

f12151. f131 20

f 12,75)=> 0,671875

-) 201796875 -1 3,125 - 5 = 0,671875

fiziasi - pontif geldi.

f12,5). f12,75) 20 almole

X=215 alt X=2175 Ust

f (2,625) => -0,693359375

311,087 1906 - 13,78125 -S

RANA NUR OKTAY - Sayusal Analiz 2. Oder =>

2-)	X3	+4×2	- 10	=0	[1,2]
-----	----	------	------	----	-------

itino	×-alt	fix-alt)	×-1,04	f(x-11+)	X-452	fu-68)
1	1	- 5	2	14	1,5	2,375
2	1	-5	1,5	2,375	1,25	-1,796873
3	1,25	-1,796875	1,5	21375	1,375	0,162) 03375
4	1,25	-1,796875	1,375	0,162109375	1, 3125	-01748388672

f(1). f(2) 20

f(1) = 1+4-10= -5

f(2) = 8+16-10=14

f(1,5)= 3,375 + 9-10= 2,375

ful) = - , f(2) = + , f(115) = +

fu), fuis) 20

x=1 alt x= 115 ust 14 4 -5 21375

x 664 _ 1,25

f (1,25)= 1,953125 +6,25 -10= -1,796875

f(1)= - , f(115)=+ , f(1125)= -

x=1,25 alt x=1,5 ist ist ist ist ist ist ist ist

x-kok = 1,375
f(1,375) => 0,162109375

= 2159360938 + 715623-10

f(1,25) = - f(1,5) = + f(1,375)=+

X=1,25 out X=1,375 ust

x-456 = 1,3125

f (1,3125) -) -0,3483 88672

=> 2,260 98 633 + 6,730 625 - 10

LANA NUR OKTAY - Sayeral Abersi 2. Ohr =)

3-1 x5

Kerdinit boslonges iain bir teger verelim

xo=0 olsun.

$$p = x' - \frac{f(x)}{f'(x)}$$

$$x_1 = x_0 - \frac{f(0)}{f'(0)}$$
 i'din $x_1 = 0 - \frac{0}{0}$ gelist Defermite defilitiveline

$$x_0 = 1$$
 digetim.
 $x_1 = x_0 - \frac{f(0)}{f'(0)} \Rightarrow x_1 = 1 - \left(\frac{1}{3}, \frac{1}{3}\right) \Rightarrow x_2 = 1 - \left(\frac{1}{3}, \frac{1}{3}\right) \Rightarrow x_3 = 1 - \left(\frac{1}{3}, \frac{1}{3}\right) \Rightarrow x_4 = 1 - \left(\frac{1$

XI burasan -2 gelit. Bir ikrasyon daha yapolum

$$x_2 = x_1 - \frac{f(x_1)}{f'(x_1)} \Rightarrow x_2 = -2 - \left(\frac{-2^{\frac{1}{3}}}{\frac{1}{3} \cdot (-2)^{\frac{1}{3}}}\right) \Rightarrow x_2 = -2 - \left(3 \cdot \left(-2\right)^{\frac{1}{3}} \cdot \left(-2\right)^{\frac{1}{3}}\right) = 1 \times 2 = -2 + 6$$

X2 buradon 4 gelif.

$$x_0 = -1$$
 digetim
 $x_1 = x_0 - \frac{f(0)}{f'(0)} \Rightarrow x_1 = -1 - \left(\frac{-1}{\frac{1}{3}}, \frac{1}{(-1)^{\frac{1}{3}}}\right) \Rightarrow x_1 = -1 - \left(3, \frac{1}{3}, \frac{1}{(-1)^{\frac{1}{3}}}\right) = x_1 = -1 + 3$

×1 burasa 2 gelit. Bit stragger some gapeline

$$x_2 = x_1 - \frac{f(x_1)}{f'(x_1)} \Rightarrow x_2 = 2 - \left(\frac{2^{\frac{1}{3}}}{\frac{1}{3} \cdot 2^{\frac{1}{3}}}\right) \Rightarrow x_2 = 2 - \left(3 \cdot 2^{\frac{1}{3}} \cdot 2^{\frac{1}{3}}\right) \Rightarrow x_2 = 2 - 6$$

X1 burasan -4 gelir.

Hongi toraffon ilerlevek istersek ona gone islem gaparit

Degener Wirbininin itaet darak tom terst gelir.

* Gittikene O'den uzaklaber. Bu iskeligimit bir key depil.

Buradon bir formul culprabilirit bu soru icin.

RANA NUR OKTAY - Sayual India Dersi 2. Gler-

$$x_{i+1} = x_i - \left(\frac{4e^{-0iSx_i}}{-2e^{-0iSx_i}}\right)$$

$$x_{i+1} = x_i - \left(\frac{4e^{-0i5x_i}}{-2e^{-0i5x_i}}\right)$$
 $x_{i+1} = -2i \times i \cdot e^{-0i5x_i}$ $x_{i+1} = -2i \times i \cdot e^{-0i5x_i}$ $x_{i+1} = -2i \times i \cdot e^{-0i5x_i}$

$$Xi+1 = -2e^{-0.5 \times i} (xi+2)$$

$$-2e^{-0.5 \times i} -1$$

genel for milimuzatis.

$$XI = \frac{-2e^{-1} \cdot (2+2)}{-2e^{-1} - 1}$$

$$X1 = \frac{-2e^{-1} \cdot (2+2)}{-2e^{-1} - 1}$$
 $X1 = \frac{-8e^{-1}}{-2e^{-1} - 1}$ $\frac{-\frac{3}{2}}{\frac{2}{2}}$ $\frac{-\frac{8}{2}}{\frac{2}{2}}$ $\frac{-\frac{8}{2}}{\frac{2}{2}}$ $\frac{-\frac{8}{2}}{\frac{2}{2}}$ $\frac{-\frac{8}{2}}{\frac{2}{2}}$

* x1= 1.69 5532 46093 66835

$$x_2 = \frac{-2e^{-0|S| \times 1}}{-2e^{-0|S| \times 1}} \times \frac{1}{-1}$$

* X2 = 1.70 52 0021 56 019175

$$x_3 = \frac{-2e^{-0.5 \times 2} (\times 2 + 2)}{-2e^{-0.5 \times 2} - 1}$$

¥ X3=1.7052110040140593

$$\frac{x_4 = -2e^{-0.5 \cdot x_2} (x_2 + 2)}{-2e^{-0.5 \cdot x_2} - 1}$$

X X4= 1.70 5211 00402 7451