Name: Nasinan Leo Id: 20-42195-1

19. 9x+ 6y+3z=20

$$\begin{array}{c} \Rightarrow R_{1}' = \frac{R_{1}}{9} \\ R_{2}' = \frac{R_{2}}{5} \\ R_{3}' = \frac{R_{3}}{3} \end{array} \qquad \begin{pmatrix} 9 & 5 & 3 & 20 \\ 5 & 4 & -7 & 21 \\ 3 & 9 & 4 & 16 \end{pmatrix}$$

$$R_3' = \frac{R_3}{3}$$
 | 3 9 4 16

$$=) \begin{pmatrix} 1 & 0.55 & 0.33 & 2.22 \\ 1 & 0.8 & -1.9 & 4.2 \\ 1 & 3 & 1.33 & 5.33 \end{pmatrix}$$

$$P_{2} = \frac{R2}{-2.45}$$

$$R_{3}' = \frac{R3}{-0.25}$$

$$0 \quad 1 \quad 0.41 \quad 1.27$$

$$0 \quad 1 \quad -6.92 \quad 7.92$$

$$= R_3 = R_2 - R_3 \qquad \begin{pmatrix} .1 & 0.55 & 0.33 & 2.22 \\ 0 & 1 & 0.41 & 1.27 \\ 0 & 0 & 7.33 & -6.65 \end{pmatrix}$$

Backward substitution:

8. 2 bile + sing

Ime: Date: / /

, x₀=1, ½=1.5, Z₀=-1

8=620+918-13) # = 18

7 = - 16 (24.242) - 23

J. e)
$$6x+6y-8z=24$$
 $10x+3y+9z=11$
 $8y+3z=10$

$$=) 10x+3y+4z=11 (xs+3)$$

$$8y+3z=10$$

$$6x+6y-8z=24 (xs+3)$$

$$E_1 - E_3 = 3$$
 $10x + 3y + 9z = .11$
 $8y + 3z = .10$
 $4x - 2y + 12z = .209 - .13$

Here,
$$x_{n+1} = \frac{1}{10} (11 - 3y_n - 4z_n)$$

 $y_{n+1} = \frac{1}{8} (10 - 3z_n)$
 $z_{n+1} = \frac{1}{12} (13 - 4x_{n+1} + 2y_{n+1})$

Il o System

Fon, n=0, $\chi_1 = 1.05$

DEVELOPING OFFICE STATE

Z1 =-1.1916

whole Hop 50P Posttion 11

For , n=1. x2 = 0.009 209 209

1/2 = 0.5225

Z3 = 25085-0.9988

2/8+A=YX

506 1 = 1 + 0.1

1.0+1 =0,209

1)8 ACO 0 0 0 0

0 8461 1 0 0

1981A 6 0 0 1 1 0

0 -1 A'BC

108AEL

5 (BIA) - V4

(5.0) = (A+A) = (A+A)

updated first time,

$$(30 \pm 0 + 2 \pm 1), 5(1) = +61)$$

OCA)(D+A) = (AA)+0=0

updated 2nd time. == 3=1.5, \$(1.6)=-2.93

1. i) Divided dissonence table.

			Ann		
	Х	, 800	5,17	s² [].	53[]
	7	3	, o ^y -		
1	3	5 M	1	(2-8) [74) .
	9	21	2)(2	-066	9)
	7	201	60	49 16.	33 2

$$ii) \quad f(x) = 3 + 1(x-1) + 18(x-1)(x-3) + 28(x-1)(x-3) (x-4)$$

$$-5(2) = 3 + (2-1) + 5(2-1)(2-3) + (2-1)(2-3)(2-9)$$

$$= \frac{3}{1} + \frac{1}{5} + \frac{5}{2}$$