Page 3

(Step:-2) let 20 = 2.24615- 21=3 f(No)=-6:54605 f(20)=49

x2 = 2-24615 x49 + 3x 6.54605 = 2-33499

f(2-33499); = -2.27375.

(Step:-3) let xo = 2-33499 21=3 f(xo) = -2-27375 f(x1)=47

38540.046

 $x_2 = 2.33499 \times 49 + 3 \times 2.27375$ $y_3 + 2.27375$ $y_4 + y_5 + y_6 +$

= 2.36448

f(2-36448)=-0.743339+ 30101+

(Step-4) let x0=2-36448 = 21=3 f(x0)=-0.743339 f(xv)=49

22 = (2.36448 x49 + 3 x 0.743339)

49 + 0.743339 22 = 2.37397

f(2.37397) = -0.24225

(SH(p)-5) let 2-3+397 2-3f(20)=-0.24225 f(20)=49 $362 = 49 \times 2.37397 + 3 \times 0.24225$ 49 + 0.2422532 = 2.37704

fle.37704) = - 0.07389

(Step. 6) let 20 = 2-37704 21,=3 f(20)=-0.07389 f(21)=49

> $20 = 49 \times 2.37709 + 3 \times 0.07389$ 49 + 0.0738920 = 2.377.977

Hence the correct decimal places of a cepto three decimal places is

5 (5 46 AL 4) 4 (5 4 2) 4 (5

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502 TT-4 295 17 (11 12)

81408 3

3 (male : 0.2976 5 , - 5 (m) 2

Question: -53

As the bigg changes from f(2) to food on the sood must him between (2,3)

Now f(x)= 4213.

Now let 26=3

\$ 21, = 20 - f(26) = 2.54 629

 $x_2 = x_1 - f(x_1) = 2.39429$

 $x_3 = x_2 - f(x_2) = 2.37857$

 $x_{4} = x_{3} - f(x_{3}) = 2.378414$ $f'(x_{3})$

or 34 - f(x4) = 2-378414

Hence the correct decimal places upto 4 decimal places is 8.3784

Question: 54=

Hence the 200ts must les 6/w (2,3)

Quention: 55:

(C) 1 - 16 - 16 13.

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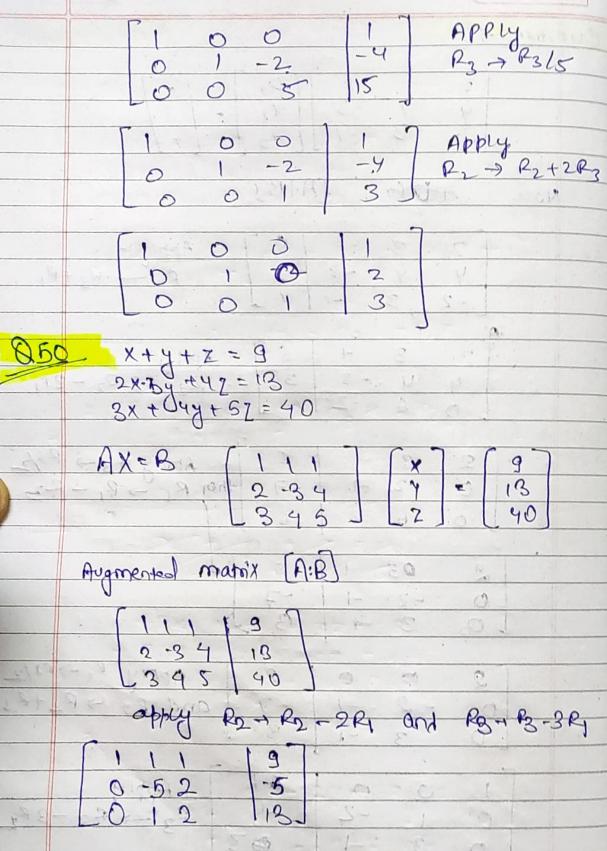
FILLS SEE SE CALLET TR 1279

(Period + 1000 12 2.212)

Teacher's Sig .alure.....

| Que | ntim 49 |
|-----|---|
| | $\begin{bmatrix} 2 & 3 & -1 \\ 4 & 4 & -3 \\ -2 & 3 & -1 \end{bmatrix} \begin{bmatrix} 2 \\ 2 \\ 2 \\ 3 \end{bmatrix} = \begin{bmatrix} 3 \\ 3 \\ 1 \end{bmatrix}$ $[-2] $ |
| | $ \begin{bmatrix} 2 & 3 & -1 & & S & & Apply! - \\ 4 & 4 & -3 & & 3 & & R_3 - > R_3 + R, \\ -2 & 3 & -1 & & & & \end{bmatrix} $ |
| | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| | 2 03 -1 1,5 x 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 116 | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ |
| | 1 0 0 0 1 Apply 0 1 -2 -4 R3 -3 R3 -3 R9 |
| | Teacher's Signature |

Teacher's Sig. ature.....



Date _____

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| | 0 | , | 6 | Apply |
|----|-----|-----|----|---------------|
| 0 | 612 | - 0 | -3 | R2 -> (-1) R2 |
| 10 | 0 | 2 | 10 | Rg -> R1-13/2 |

| | D | 0 | 117 | Aboly |
|---|----|---|-----|-----------|
| 0 | -1 | 0 | 3 | R2 7 83/2 |
| 0 | 0 | 2 | 10 | |

| 1 | 0 | 0 | 1. | |
|----|---|-----|-----|------|
| 0 | 1 | 0 | 3 | + : |
| LO | 0 | 121 | 550 | T.A. |

25 = 25 + 56 + 36 £

==+12-63 1 - 2

30 == 10 6

Teacher's Signature....

No - Ko P & (Question: - 59) Basic formula a,x + by + c,z = d, 02x + bzy + Czz = dz. ?. x = 1 d, - b,y - c,z y = 1 d2 - a2x - C22 Z= 1 [d3 - 93x - 634] (Solution 57) x+4+2=9 201 - 397 YE 13 45x + 2y + 3z = 58 -324 + 22y + 2z = 47 524 + 420z = 67(Step-1) $x = \frac{1}{45} \left[58 - 24 + 32 \right] = \frac{1}{45} \left[58 \right]$ > y= z= 0}

Date Page 39

$$= \frac{1}{22} \left[\frac{47 + 3x - 2z}{7 + 3x - 2z} \right] = \frac{1}{2} \left[\frac{47 + 3x \cdot 288}{7 + 3x \cdot 288} \right]$$

$$z = \frac{1}{20} \left[67 - 5x - y \right]$$

$$= \frac{1}{20} \left[67 - 5x \cdot 289 - 2.3121 \right]$$

$$z = 9.9123$$

Step!-2
$$\frac{1}{2} = 2.3121$$
 $z = 2.9123$

$$\Rightarrow = \frac{1}{45} \left[58 - 2 \times 2.3121 - 3 \times 2.9123 \right]$$

$$= 0.99197$$

$$y = 1 \left[47 + 3 \times 0.99197 - 2 \times 2.9123 \right]$$

$$= 2.0068$$

| Date | |
|---------|--|
| Page 40 | |

Step:-3=>. y= 2.0068 . Z=3.00168

-) - X= [88-2×2.0068-3×3.00168]

2C= 0.99958

=> y= 1 [47+3× 0.99958-2×2.0068]

y= 2.09023

→ Zz 1 [67-5×0.99958-2.09023]

5x5-601000x5+FN] 1 3K

2 = 2,9955 = AM

1000 = FC18C-0 ×3 -- FD | 1.

50168 O E