Name: Emad Ahmed

Am to the question no: 3 (a) 19 no: 1812020106

- //1

$$-(a+1)m - (c+1)y + (b+3)z = -12$$

$$(b+1)n + (a+3)y + (e+1)z = 9$$

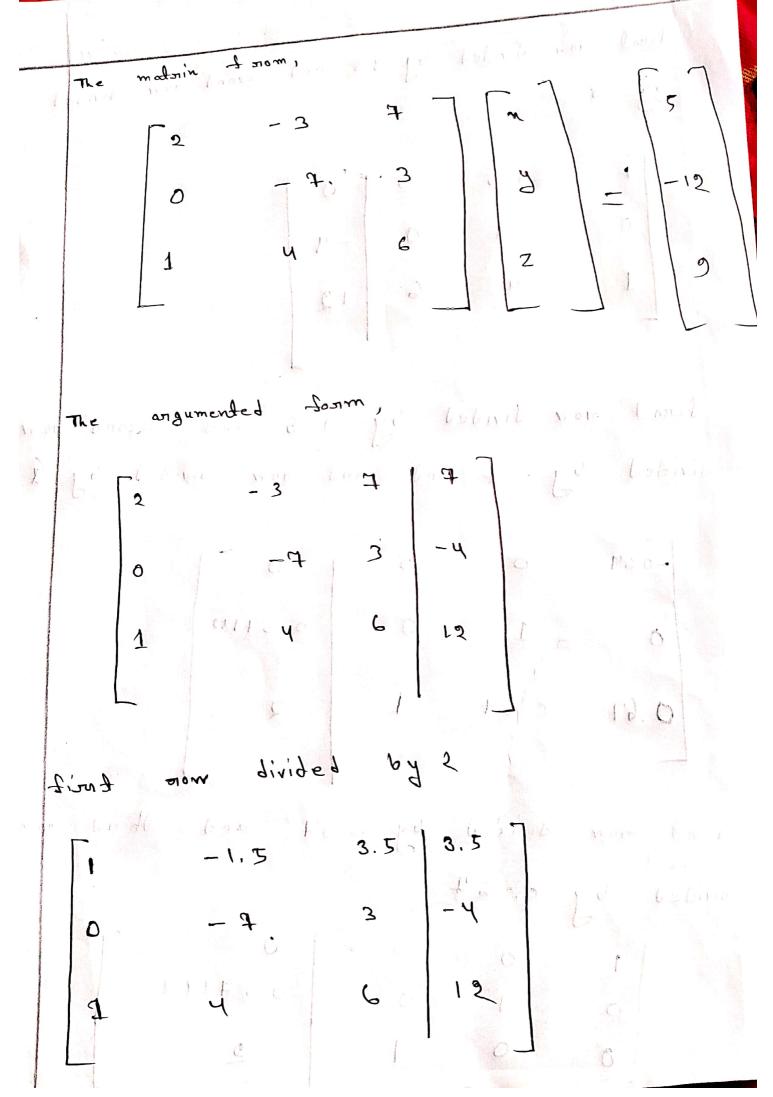
Now, a = 1, b = 0, and e = 6

$$(0+2)n - (1+2)y - (6+1)z = 5$$

$$-(1+1)n-(6+1)y+(0+3)z=-12$$

$$(0+1)n + (1+3)y + (6+1)z = 9$$

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| And the second second | <u> </u> | | | L. | 3 buch | , , , , , , , , , , , , , , , , , , , | 1 w = 7 |
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| 91 | 410 -0 | L. 9 | 0 | ٥ | 10 | | |
| | | | | 0 | 0.5 | -4145 | |
| | | o | 0 | 1 | - | 9 | |



Am to the question no: 3 (b)

$$n + uy + 67 = 9$$

Rewaiting the net of eyn in the form,

$$n = 5 + 3 + 3 + 7 = 0$$

$$y = \frac{-12 + 0 + 37}{3}$$

$$z = \frac{9 - 1 - 4}{6}$$

3 deration: 1

Arouming y = 0 and 2 = 0

$$n = \frac{5+0+0}{2} = 2.5$$

Now, x = 2.5, Z = 0

$$y = \frac{-12+0-3}{3} = -5$$

$$z = 9 - 1(2.5) - 4$$

$$= 0.41667$$

Steration: 2

34 on altion: 2

$$x = 5+3(-5)+4(0.41664) = -4.08331$$
 $= -43.54165$

$$y = -12 + 0(2.5) - 3(0.41667) = -4.4161$$

$$z = 9 - 1(2.5) - 4(-5)$$
 $= 9.834$

stenation 3;

$$y = \frac{-12 + 0 \times (3.541655) - 3 (3.834)}{3} = 4.618$$

$$z = 9 - 1 \left(3.541655\right) - 4 \left(-4.4161\right) = 8.132$$

$$n = 5 + 3 (u.618) + 7 (8.132) = -18.651$$

$$y = \frac{-12 + 0x \left(0.4161\right) - 3 \left(8.132\right)}{3} = 22.618$$

Heration 5

$$n = \frac{5+3(22.618)+7(9.48)}{2} = 2.48$$

$$y = \frac{-12+0x(-18.651) - 3(0.48)}{3} = 10.48$$

$$z = 9 - 1 \left(-18.651\right) - 4 \left(22.618\right) = 9.48$$

9 Elgmasni iteration an e This

In to the vuestion no! 1

$$4(n) = (b+6)n^3 - (c+2)n - (a+1)e^{-n}$$

My 48 =) 1012020106

$$f(n) = (0+6)n^3 - (8+2)x - (1+1)e^{-x}$$

$$4(a) = 4(0) = 18 \times 0^2 - 8 - e^0$$

| | 7~ | flan | 1' (mm) | |
|--|---------|---|---------|---------------------------------------|
| | -0.66 | - 2.9Y | 15.11 | $m_{6} = (0.66) - \frac{2.94}{15.11}$ |
| | -o. y 6 | ÷0.74 | 5.115 | $n_{4} = (-0.46) - \frac{1}{5.15}$ |
| | | | | =0.316 |
| Constant Column Section Columns Section Column | | A SECURITY OF THE SECURITY OF | | |
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Roof = -0.46

a=1, b=0, c=6 to calculate, + (3,4) no i chance (2.3,6), $(3.4,\frac{5.4}{5.4})$, $(4.4,\frac{3.8}{3.8})$ $f(n) = \begin{cases} 2 & 1; (n) & 4(n;) \end{cases}$ = Lo (n) + (no) + Li, (n) + + (n2) + h2(n) + (n2) J # 0 $= \left(\frac{n-n_1}{n_0 n_1}\right) \left(\frac{n-n_2}{n_0-n_2}\right)$ $= \frac{(n-3.7)(n-4.1)}{(2.3-4.1)}$ $\frac{\chi^{2} - 4.1 \kappa - 3.7 \kappa + 15.17}{-1.4 \times (-1.8)}$ $\frac{n^2-7.8n}{-2.52}$

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using the value in equation! $\frac{\chi^{2}-4.8\chi+15.17}{2.5L}$ $\chi_{10}+\frac{\chi^{2}-6.4\chi+5.43}{-0.5L}$ $\chi_{3}.4+$ n2 - bn + 8.51 x 9.8 = Bn2 - 54.8n+ 43.08 + 5.9.4n2 - 54.4n4 82.43 3.8 m2 - 54.8 m + 81.89 0.72 $\frac{1}{2.5} \left(\frac{9n - 54.8 + 43.08}{-0.56} \right) + \frac{(5.4 - 54.4 + 82.4)}{-0.56}$ n (0, nn - 54, & +81, 89) Dn-54.8+43.08+ 9.4- 54.4 +82.43+9.4x-54.8 4.81 133n - 481.4 4.81

132.4 Az