Ans to or 1

Given,
$$u_1 + 6 x_2 + 2 x_3 = 10$$

 $3 x_1 + 2 x_2 + x_3 = 6$
 $4 x_1 + 5 x_2 + 2 x_3 = 9$

We have ,

Here,
$$m_{21} = \frac{A_{21}}{A_{11}} = \frac{3}{1} = 3$$

$$m_{31} = \frac{A_{31}}{A_{11}} = \frac{4}{1} = 4$$

$$F^{(1)} = \begin{bmatrix} 1 & 0 & 0 \\ -m_{21} & 1 & 0 \\ -m_{31} & 0 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ -3 & 1 & 0 \\ -4 & 0 & 1 \end{bmatrix}$$

$$A_{2} = \begin{bmatrix} 1 & 0 & 0 \\ -3 & 1 & 0 \\ -4 & 0 & 1 \end{bmatrix} \times \begin{bmatrix} 1 & 6 & 2 \\ 3 & 2 & 1 \\ 4 & 5 & 2 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 6 & 2 \\ 0 & -16 & -5 \\ 0 & -19 & -6 \end{bmatrix}$$



$$\begin{array}{lll}
M_{32} &=& \frac{-19}{-16} &=& \frac{19}{16} \\
f(2) &=& \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & -m_{32} & 1 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & -\frac{19}{16} & 1 \end{bmatrix}$$

Now,
$$L y = b$$

$$\begin{pmatrix} 1 & 0 & 0 \\ 3 & 19 & 0 \\ 4 & 19 & 1 \end{pmatrix} \times \begin{pmatrix} y_1 \\ y_2 \\ y_3 \end{pmatrix} = \begin{pmatrix} 10 \\ 6 \\ 9 \end{pmatrix}$$
Using a ward substitution:
$$y_1 = 10 - 0$$

$$3y_1 + y_2 = 6 \Rightarrow y_2 = 6 - (3x_{10})$$

$$y_2 = -24 - 2$$

$$4x_1 + \frac{19}{16}x^2 + 73 = 9$$

 $4x_1 + \frac{19}{16}x^2 + 73 = 9$
 $4x_1 + \frac{19}{16}x^2 + \frac{19}{16}x^2 - 4x_10$
 $4x_1 + \frac{19}{16}x^2 + \frac{19}{16}x^2 - 4x_10$
 $4x_1 + \frac{19}{16}x^2 + \frac{19}{16}x^2 - \frac{19}{$

Now,
$$U \kappa = \chi$$

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$$V = \frac{2}{\sqrt{\chi^2}}$$

$$\left[\begin{array}{ccc} \kappa & 2 \\ -16 & -5 \\ 0 & 0 & -1/6 \\ 0 & 0 & -1/6 \end{array}\right] \times \left(\begin{array}{ccc} \chi_1 \\ \chi_2 \\ \chi_3 \\ -2.5 \end{array}\right) = \frac{10}{-2.5}$$
Using backward substitution:

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$$0 - \frac{1}{16} \times 3^{2} = -5/2 \Rightarrow \times_{3} = 40 - 0$$

 $0 - \frac{1}{16} \times_{3} = -24 \Rightarrow \times_{2} = -24 + 5 \times 40$

$$8 \times_{1} + 6 \times_{2} + 2 \times_{3} = 10$$

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$$8 \times_{1} = 10 - 6 \times (-11) - 2 \times_{40}$$

$$8 \times_{1} = 10 - 6 \times_{10} = -4$$

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pure onstrou arot nombreast gausian ट्ट which 30 diagonal values of a 9 zeno. In both when here we can x'urban elimination / find 1000th causes the pivoting problem. a11 , 022,033

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appen trangular motivis =

0 6 2

bachward substitution: 0

3-3×1+2×2+x3 6×2+2×3 10

2 X 2