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$$u_{23} = a_{23} - l_{21}u_{13} = -4 + 2 \cdot 2 = 0$$

$$u_{33} = a_{33} - l_{21}u_{13} - l_{32}u_{23} = -4 + 3 \cdot 2 - 4 \cdot 0 = 2$$

$$l_{43} = 0.43 - l_{41}u_{12} - l_{42}u_{23} = -24 + 5 \cdot 2 - 6 \cdot 0 = -7$$

$$u_{33}$$

$$j = 4$$

$$u_{44} = a_{14} = 1$$

$$u_{24} = a_{24} - l_{21}u_{34} = 0 + 2 \cdot 1 = 2$$

$$u_{33} = a_{33} - l_{34}u_{34} - l_{32}u_{34} = 5 + 3 \cdot 1 - 4 \cdot 2 = 0$$

$$u_{44} = a_{44} - l_{41}u_{44} - l_{42}u_{24} - l_{13}u_{34} = 9 + 5 \cdot 1 - 6 \cdot 2 + 7 \cdot 0 = 2$$

$$U = \begin{bmatrix} 2 & 0 & 2 & 1 \\ 0 & 2 & 0 & 2 \\ 0 & 0 & 2 & 0 \\ 0 & 0 & 0 & 2 \end{bmatrix}$$

$$det(U) = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 16 \qquad det(L) = 1 \cdot 1 \cdot 1 \cdot 1 \cdot 1$$

$$det(A) = det(U) \cdot dot(L) = 16$$

$$[U(1)] = \begin{bmatrix} 2 & 0 & 2 & 1 & 1 & 0 & 0 \\ 0 & 2 & 0 & 2 & 0 & 0 & 0 \\ 0 & 0 & 2 & 0 & 0 & 0 & 1 \\ 0 & 0 & 2 & 0 & 0 & 0 & 1 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 1 & 1 & -10 \\ -1 & -3 & 0 & 1 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 1 & 1 & -10 \\ -1 & -3 & 0 & 1 \\ -2 \cdot -10 & 5 & 25 & 1 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 1 & 1 & -10 \\ -1 & -3 & 0 & 1 \\ -2 \cdot -10 & 5 & 25 & 1 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 1 & 1 & -10 \\ -1 & -3 & 0 & 1 \\ -2 \cdot -10 & 5 & 25 & 1 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \end{bmatrix} \rightarrow \begin{bmatrix} 1 & 1 & 1 & -10 \\ -1 & -3 & 0 & 1 \\ -2 \cdot -10 & 5 & 25 & 1 \\ 0 & 0 & -1 & -3 & 0 & 1 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 & 1 \\ 0 & 0 & 0$$

x4 = -	$\frac{1}{3} = 1$ $\frac{-1}{3} = 2$ $\frac{-2-1}{2} = 0$ $\frac{-2-1}{2} = 2$					
v - 7	-1 2		Γ,	, ¬		
<b>73</b> = -	3 - 2		× = [ ]	0		
x, = 3	- 2-1 = 0	,		1		
x - 6	110-2=2					
71= -0						