St.

14008-73/32

$$2u+v+w=5 - 0
0-8v-2w=-12-2
08v+3w=14-3
2u+v+w=5
-8v-2w=-12
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$$\# E_{32}E_{31}E_{21}A = 7 \begin{bmatrix} 2 & 1 & 1 \\ 0 & -8 & -2 \\ 0 & 0 & 1 \end{bmatrix}$$

$$E_{2|} = \begin{bmatrix} 1 & 0 & 0 \\ -l_{2|} & 0 & 1 \end{bmatrix}$$

$$\Rightarrow \triangle = 2 + 2 \times 0$$

$$A = E_{21} E_{31} E_{32} U$$

$$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 21 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1 & 0$$

1.5 Triangular Factors

$$\frac{AX = b}{L AX = L - 1b} = C$$

$$\frac{L}{AX} = C$$
Upper triang Mt.

$$L = \begin{bmatrix} \begin{pmatrix} 0 & 0 & 0 \\ \ell z_1 & 1 & 0 \\ \ell \beta_1 & \ell \beta_2 & 1 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 2 \\ 3 & 8 \end{bmatrix}$$

$$V = \begin{bmatrix} 1 & 2 \\ 3 & 8 \end{bmatrix}$$

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

$$V = \begin{bmatrix} 1 & 2 \\ 3 & 1 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 21 & 1 & 0 \\ 131 & 232 & 1 \end{bmatrix}$$

$$= \begin{bmatrix} \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} & \frac{1}{4} & \frac{1}{4} \end{bmatrix}$$

Diagonal Matrix

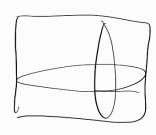
$$D^{N} = \begin{bmatrix} J_{1}^{N} & J_{2}^{N} & J_{3}^{N} \\ J_{2}^{N} & J_{3}^{N} \end{bmatrix}$$

D HEAREN FROM. but, Lu Un see the yell

@ Row Exchange (privoting)

$$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} 2 & 1 & 1 \\ 4 & -6 & 0 \\ -2 & 7 & 2 \end{bmatrix} = \begin{bmatrix} 4 & -6 & 0 \\ 2 & 1 & 1 \\ -2 & 7 & 2 \end{bmatrix}$$

O Parmutation Matrix



$$|P_{32}|^{21} = [00] [00] [00] = [00]$$

$$|P_{32}|^{21} = [00] [00] [00] = [00]$$

$$|P_{32}|^{21} = [00] [00] [00] = [00]$$

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