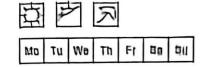
Mo Tu We Th Fr Sa Su	Memo No Date /	1
LEC 12 225, 2,2	Elimination	/
		itrices,
x + > 1 + 2 /	2/	121
	1 (21)	0 127 -2
•		0 4 1
Elimination (3,2)	11721 0 127- 0 0 13	2 pivots
Back-substitution b:	2 -> 6 2 -> 2	→ 6 -10
=> (x+2y+2=2 y-23=6 52=-10	x=2 y=1 2=-2	
Elimination matrices $ \begin{bmatrix} 1 & 0 & 0 \\ -3 & 1 & 0 \end{bmatrix} $ $ \begin{bmatrix} 3 & 8 & 1 \end{bmatrix} $ $ \begin{bmatrix} 0 & 1 \\ 0 & 4 \end{bmatrix} $	5-tep 1 2 /] (4)



Momo No. _____/

subtruct ?

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 2 & -2 \end{bmatrix} \begin{bmatrix} 1 & 2 & 1 \\ 0 & 2 & -2 \\ 0 & -2 & 1 \end{bmatrix} \begin{bmatrix} 1 & 2 & 1 \\ 0 & 2 & -2 \\ 0 & 4 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 2 & 1 \\ 0 & 2 & -2 \\ 0 & 0 & 5 \end{bmatrix}$$

$$E_{32}(E_{21}A) = U \Rightarrow (E_{32}E_{4})A = U$$

(can change ()'s pader)

mutrix "

Inverses

$$\begin{bmatrix} 1 & 0 & 0 \\ 3 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$E^{-1} \qquad E$$