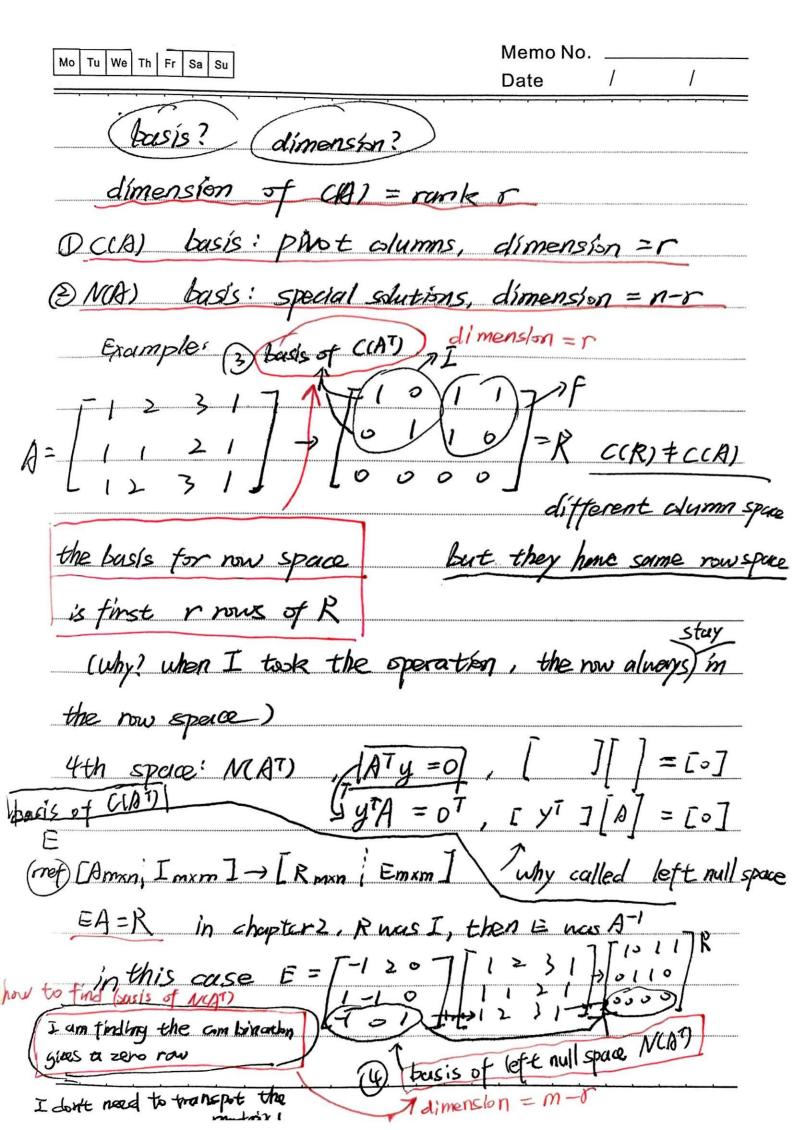
Mo Tu We Th Fr Sa Su	Memo No
[LEC10, The Four	Fundamental Subspaces
O correct error in U	cc 9
Ofour Fundemental sut	
Today: connect the column	n space with now space
4 fundemental subspace	es T
the column spo	uce [C(A)] in R (n < m)
(2) the mull-space /	$V(A)$ mR'' (free $\leq n$)
•	$= \frac{\text{odd combinations of rows}}{\text{ons of } A^T = C(A^T) \text{ in } R^{\# N}$
(2) the nullspace of A	77 (177)
	(free & m) of A
A 15 mxn 4 subspo	ices
Kn row dimension con = r	18m Column space
null dimension	of AT mr
n-r+r=n	m-n+r=m



\text{\text{\$\}\$}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	7	5	R			
Мо	Tu	We	Th	Fr	Sa	Su

Memo No.	-	
Date	1	1

new vector space!	
All 3x3 matrices!!	
MA+B and A	
subspaces of M: all upper	triangulars / c11/
symmetric matrices / dias	2
	D the dimension of
	this is three
streeting the idea from	[',]['][,]
R^n to $R^{n \times n}!!$	