	Linear Algebra		
	Lecture: 18	Date / / Page	
	-> Determinants, det A, 1A1		RANKA
	-> Proposities 1,2,3,4-10		
	→ ± signs.		
	Determinants is number associated with every		
	equare matrix.		
#	Inverstible ! when IAI = 0,		
(F)	Singular 6 When $ A = 0$.		
(#)	Properties $1A1$: (1) (9) det $I = 1$.		
	2) B' What happene do a determ if you exchange		
	the rows.		
	Exchange rows: reverse sign of det.		
	det $P = 1$ — seven (#of exchange) Permujation		
	permination 1 - 0009	Linear Comb	
t.	onoper the	tinear	
example	1 (3) ta tb	1 a t	
	0 1 = 1	C	
	8) 10 1 -1 1 1 1 1 1 1 1 1 1	1 a b	•
		[cd]	
	C a	+ 1 9	6
		C	d
			-

















