

Mow, So, bases of N(A)= [0] / 0 dim (N(A)) = n-r = 4-2=2 basis for CCAT) = [0] dim (CCAT))= 2 Mow, 010 0110 100/1201 R3-) R3-R1 010/0110 601/0000 1-20 1001 R, -> R, -2R2

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So, basis of N(AT) =	P-1	7
	10	
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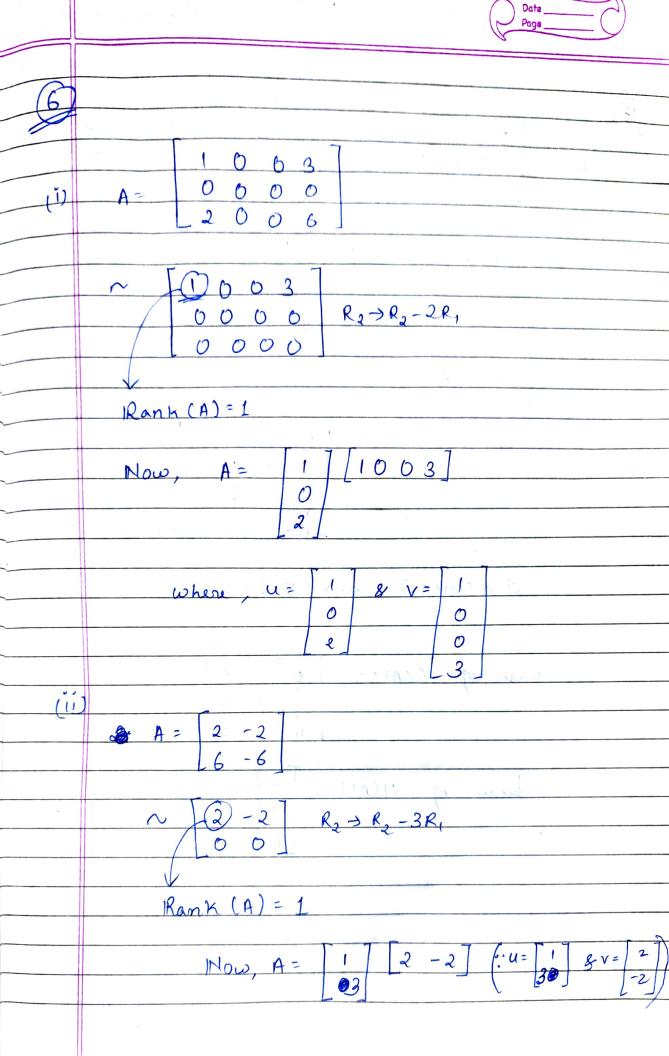


७	O	19	7	R, ~	$r \rightarrow R$	-2R,
		00		ol ol		٠ (



dim (((A)) = 1

dim (N(A)) = mn-r



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Here, boising c(A) = 1 3

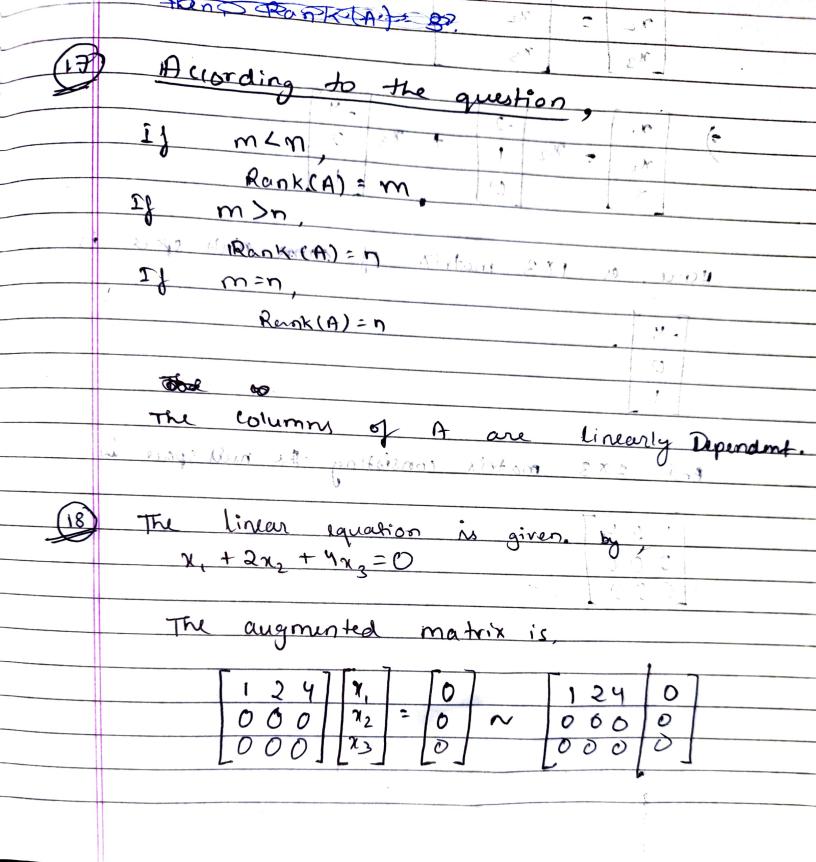
dim (c(A)) = 2

basis of N(A) = [-2] 2 0 2 8 0 2 0 0

dim(N(A))= n-r= 5+2=3

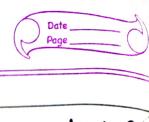
basis of (CAI) = 0 0 0 7 2 1 2 1 2 1 2 1 2 1 6 1

basis of N(AT) = 0





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	A = 10
	0 1
	. I is observed to vice world
	~ 10 to (1) years of
	1 2 R2->R2+2RQ = (19210) mills of
	LO 1] . 1-6
	~ 10
	1 2 R3-) R3+2R2 (('A) M) mb
	25
	O :
	Here, the resultant matrix soos has column space
	IFA Those 37 (('A)4) mile to . (CA)4) mp 2
	1 1 0 and row space 1 , 2
	[0] [1]
	T t ? A
(b)	Constructing such a matrix isn't possible
	as we know, A E RMAN.
	500000000000000000000000000000000000000
	column spare is given to be 1.
	30, Rank (A)=1
	prast separate should be you
	Null spau i is given to be 1 ? So, no would have to be 2.
	have to be d.



This is not possible as null space basis is a 3-dimentional vector & It can be the matrix A as follows: (c) A = [10] Here, pivot variable is 1. Ju, Rank (A) = 1 So, dim (N(A)) = n28-19-19 = 2-1 180+26-5A dim (N(AT)) = m-r word bank Xirlana matteres at 2041 So, dim (N(A)) = | + dim (N(AT)) is realistied. The matrix can be, (d) a dens grillanteros 1) Here, - 1x 1 = 3x1 2 2 3 12 11 11

