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02

AMEY

	0	1	1	2	-1		0	
,	1	2	3	4	-1	χ =	1	
	2	0	2	0	2		2	

(i)	0			2	-1	0	5
	1	2	3	4	-1	,	
	2	٥	2	0	a 2	2	1

9	3	4	6	* - 2	1	
1	2	3	4	-1	1	
2	0	2	0,	2	2 -	R2+R,

-		307 7			
	1	3 4	6 -2	7.3	1 2 4
	0	-)1	-2 1	0	Ç)
	6	-6 -6	-12 6	0	- 1 Ri+Re, -2 RIA

	1	3	ر در	6	22		4 4 4
	0	-1	-1	-2	1	0	
	0	0	Ò	6	0	0	-6R2 + R3

(a) Multy (1) = no. of columns - of (A)

= 5 -2

= .3

(ii) 7, +3x20+4x2+6x4-2x5=0

- 22 - 23 - 2x4 + 95 = 0

There are 5 variables and 2 eq?

So we will assume 3 Nariably

=> If 2,=1 , \alpha = 0 , \alpha = 0

we will - get

 $(-2x_1 + x_2 = 0)$ $(-2x_1 + x_2 = 0)$ $(-2x_1 + x_2 = 0)$ $(-6x_1 + 2x_2 = 0)$

Adding both we get

1 + 95 = 0 4 74 = 0

- xs = -1

(a) If 7, =0 ne=1 m2=0

we will get

3 x2 + 6 x4 - 2 x5 = 0 3 + 6 x4 - 2 x5 = 0

-2 -244 +24- = 0

(-1-2x++ or =0)3

-3-6x4 +3x1 =2

1. 3+ 6a4 =0

2. 24 = -1

If x, +0 x=0 4 x3=1

we will get

Sup- Kon

4 2 + 6 94 - 225 = 0

(-x2 - 2x4 + as = 0) 2

... 25 = -3

4 + 624 + 6 = 0

 $-1. \quad 74 = -10 = -5$

endthles to 192