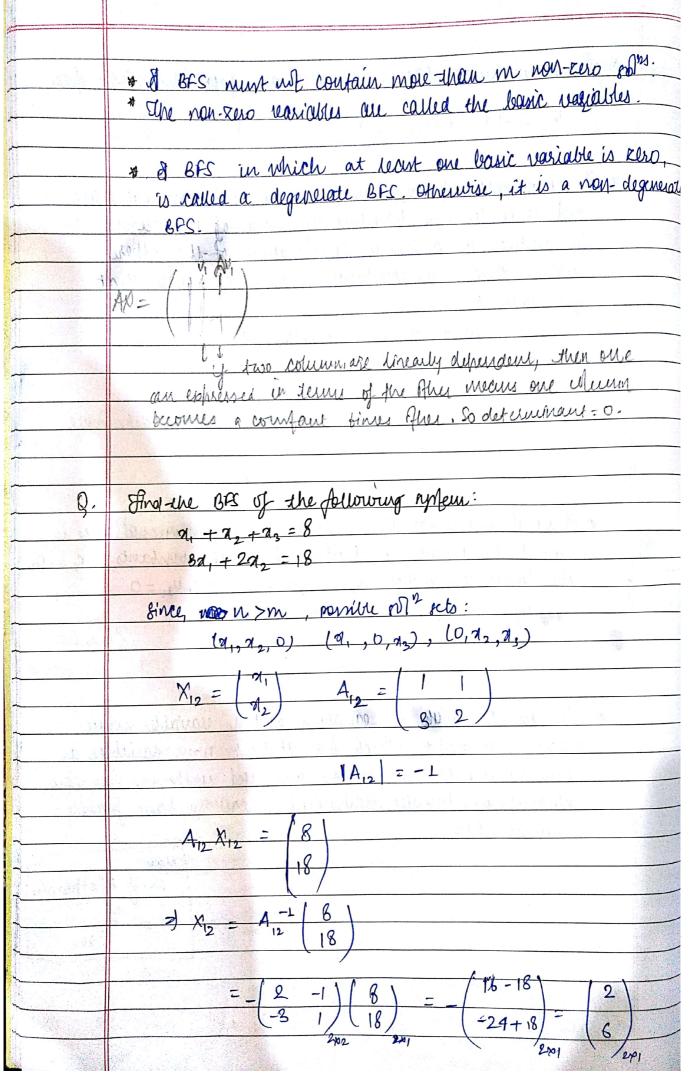


	+ For a dimensional space, a vectors can spage the whole space.
	la difference areas in a la factoria de la companya de la companya di la companya di la companya di la companya
	R" = \$ (1,0,0,), (0,1,0,), 3
81	AC 1985 Mark Austin Law Raket is placed that I have been a
5 1 2. 4	& d set of vectors (v, v, va) in an n-dimensional frace is
	said to be unearly defendent iff some of the vectors can
	be written as a linear combination of the others.
	That is, there exists constants G, C, Cn such that
	for some te,
	G12, + C212, + + CnUn = 0
	and cx 70
	Mark the Anna (
	QU, = - () I glineau dependence
	) V; = -1 ( )
	The same of the sa
	# 18 set of wefore (v, Uz v,) in an n-dimensional space is
A.	said to be linearly independent if for the courtaints C., Cz Cn
api <sup>r</sup>	the linear combination C, U, + C, U, + + C, U, = 0
in The	iff $c = c = c = c = 0$
	G(1,0,0) + C, (0,1,0) + G(0,0,1) = (0,0,0) , nelependence
	G(1,0,0) + C, (0,1,0) + G(0,0,1) = (0,0,0) findependence
5	4 0 04
	In an LPP with in equation and is rearrables where
	n>m, a solution which has at legyt n-m bariables as  Eero (0) and the m vectors asscripted with m non-zero
	solutions are linearly independent is called a basic feasible
	Surion (BFS).
40	2 - 1 Alon
	No. of bfs homice
	DO N-M = NCm
	(n) 12, 03, 04.3
76.00	mos Sthere two we
	How much and and and and
	toriobles freque sol 2 mily con on a rone en
	give us unquest



	CIASSIFIA	1
$\int$	Date	$\bigcirc$
5	PULL Commence and	

allelandruse (secure				No. of the last of	1,	1/2	219
0,	One	of the	BFS				,

$$\frac{\chi_{03}}{\eta_{3}} = \begin{pmatrix} q_p \\ \eta_{3} \end{pmatrix} \qquad \frac{\lambda_{23}}{23} = \begin{pmatrix} 1 \\ 2 \end{pmatrix} \qquad \begin{pmatrix} 1 \\ 2 \end{pmatrix}$$

$$X_{23} = \frac{1}{2} \begin{pmatrix} 0 & -2 \\ -1 & 1 \end{pmatrix} \begin{pmatrix} 8 \\ 18 \end{pmatrix}$$

$$= \begin{pmatrix} 9 \\ -1 \end{pmatrix}_{2n}$$

Since, 73 is coming out to be -re.

(0,9,-1) is not a BFS.

$$\frac{\mathbf{M}_{13} = \left(\begin{array}{c} \mathbf{M}_{1} \\ \mathbf{M}_{3} \end{array}\right) \qquad \frac{\mathbf{A}_{13} = \left(\begin{array}{c} 1 & 1 \\ 3 & 0 \end{array}\right)}{\left(\begin{array}{c} \mathbf{M}_{13} \\ \mathbf{M}_{2} \end{array}\right) \qquad \frac{\mathbf{M}_{13} = \left(\begin{array}{c} 1 & 1 \\ \mathbf{M}_{3} \\ \mathbf{M}_{3} \end{array}\right)}{\left(\begin{array}{c} \mathbf{M}_{13} \\ \mathbf{M}_{2} \\ \mathbf{M}_{3} \end{array}\right) \qquad \frac{\mathbf{M}_{13} = \left(\begin{array}{c} 1 & 1 \\ \mathbf{M}_{3} \\ \mathbf{M}_{3} \end{array}\right)}{\left(\begin{array}{c} \mathbf{M}_{13} \\ \mathbf{M}_{2} \\ \mathbf{M}_{3} \end{array}\right)}$$

1A13 = -3

$$\frac{x_{13}}{-3} = \frac{1}{3} + \frac{0}{18} = \frac{1}{18}$$

$$\frac{1}{-3}\begin{pmatrix} 0-18 \\ -24+18 \end{pmatrix} = \begin{pmatrix} 6 \\ 2 \end{pmatrix}$$

(6,0,2) is a BFS.

So, we obtence map possible BFS = 3.
But, we got only 2 valid BFS.