



			*				
Ex15)	×14-5=0 1	4 1	Ex 16)	x+4y+2=	0 1		
	14x-7 +25=0		1000000	4x +17y+72:	District Control of the State o		3 Tabas Was a law to a 14
	16x 4y 442=0	and the second second second second		7× + 224 +137		and the second of the	*
	xty-2=0	-	CHARLEST CO.	1 ++47+2=0		ar and a statement over the second	4 1 1 1
	4x-y+52=0	1		4x+13y+72			Repair Committee and Committee
	1(x+y-2=6)		The second section is the second section of	4(x+4y+ z		*	
1	-54492=0			-34+32		049	
E.4	y-===0	r 5	, E.	3 4-3=			El <sub>Alb</sub>
Name .	6x+y+42=0	and the same of th		17x+22y+			
-6	(244-5=0)			7(x+4y+2		1	
	-5y+10z=0			-6y +6			
F. 6	y-22=0	Y .				and the same	
	-(4-3=20)		E,S	y-2=			- Q - V-4
	¥2=0			×+44+4			1.
	Z=0	, : .	E.6	x +5 y = 0		, y	g 1
E.8	4-2(0)=0			x=-5y=	The second second		
	7=0		- 1/	そ==	į.	20 14 29	3
E.9	x+0-0=0			yst	1.10	7 12	* (1)
	>=0		vils.	x=-5t			10 January 20 August 1992 16
Cx,y,	2)=(0,0,0)		Giy.	2)=(-St, t	,t)=	t(-5,1	11
The	3 planes intersect	\$	The	3 planes int	cocct.	at the	
	(0,0,0) only			e given by		The state of the s	
	37 11.			ich mas th			
		35					The second second second

(0)

	*7	A CONTRACT OF THE PARTY OF THE
_	Ex17) x+2y=a 1	b) at k=7, there are infinitely
-	3×+5y=b	many solutions, as stoun in for
	E.1 ×+2y=a	a)
_	E,2 3x+5y=6	for all other wheo of k, mo
	=-3(x+2y=a) -3E.1	solution expts
******	-y= b-3a	
	E.3 y=3a-b	c) if k=7:
	x+2(3a-6)=a	E1 4-2=-3
	x+69-26=a	y-22= -3(7)-3
	x = -5a+2b	E,2 y-2z=-3
	(x,y) = (-5a+26, 3a-6)	y= 2z-3
-		×+ (22-3) -2 = -2
	Ex19)   x+y-Z=-2	× +2-3=-2
	3x-5y+13z=18	E.3 ×=-2+1
	x-2y+5z=k	Let z=t
	A) E.1 xty-2=-2	x=-t+1, y= 2t-3
	E.2 3x-5y+13=18	(x,y,z)=(-t+1,2t-3,t)
_	-3(x+y-z=-2) -3E.2	
-	-84+162=24	Chapter 1.2
	E.) y-Zz=-3	Ex 2)  3x +4y-2=8
	E.4 x-24+52=k	6x+8y-2z=3
-	- (x+y-==-2) - E-1	[3 4 -1/8] [6 8 -2 3] -2(I)
	-3y+6==1c+2	
	E,5 4-5=-3k-3	[34-1   8 ]
	La comet have one solution	
	Loughitely many when -3 k-3=-3	no solution
	3(-3k-5=-3)	, )
	-k-E= -9	
	-k=-7	
	4-7	
	Infinitely many solutions at	
	k=7	

P= 000000 Ex 20 00000 GROU I has nonzeros -> a must be a leading 1 Lo Row I has no leading Is to the left of the column containing e, therefore e=0 is a has to be either a o or 1, but if it were 1, it would be a leading ) and leading Is must have the rest of the column as O. . c=0 a=1, c=0, e=0, J=0, 5= R Va=1, C=0, C=0, 0=1, 5=0

Ex26) les, an operation con							
be done to turn Dinto A.							
The bapes of operations are:							
1) Dividia Ly a more a scala							
Ti) sustracting a multiple of a							
you from another 100							
ili) suapping rows							
If division by a nonzero scalar							
occurs, division by that nonzero							
scalar's reciprocal vill revert B-7A.							
If sustracting a multiple of							
The state of the s							
another row occurs systracting							
the negative of that same							
multiple ull revert 1->A.							
If row snapplns occurs, the							
rows can be supped back.							
In other words, the inverse							
operation susps 10-7A.							

Ex 20) When you multiply both sides at an equation by the same value, the equation remains equivalent to its original value. It also remains equivalent when you Subtract equivalent values ton both sides of the equation, therefore subtracting of multiple of an equation results in a system with the same solutions.

QI) In a system of 2 Incar equations of 3 valiables the solution set either consists of no solution or infinitely many solutions. The intersection of 2 planes (3 variable equetions) always forms a line, and therefore would be unable to provide a unique solution. They can also be parallel, having no intersection, and therefore no solution. In a system of 3 linear eguctions of 3 variables, the solution set may consist of a unique solution, no solution, or infinitely many solutions. Once again, the 3 planes may intersect at a line, consins infinitely man solutions, or be parallel causing no solution. In addition, the planes may intersect at 2 parallel lines also causing there to be no solution. However the planes may also intersect at 2 lines that cross, which would mean their intersection is a point, and therefore a unique solution.