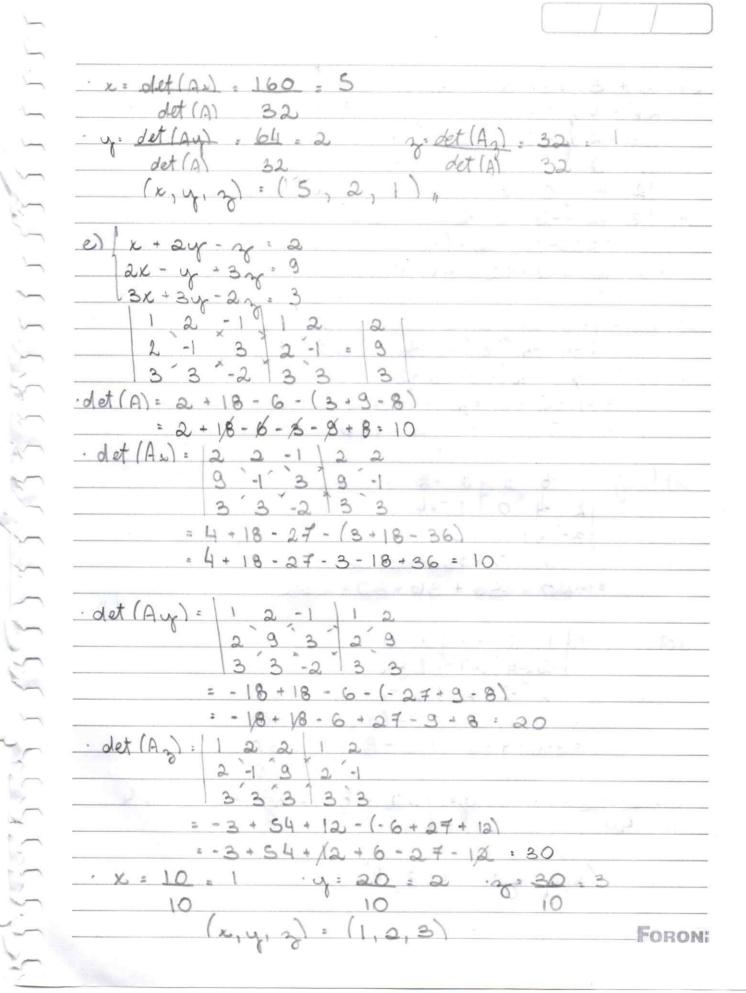


2		
<u> </u>		
<u></u>		
	2)	
	a) AXB = C	b) A(B + X) = A
	X = CA - 'B-'	AB+AX=A =
	2	AX = A - AB = X = A - AB
~	C) ACXB = C	X=-AB4
-	CX = A-'CB-' X = C-'A-'CB-'	a)(AB)- (AX) = CC-1
-	X = C A CB	8-'A'AX = CC-
-		* X = B , 3
,	e) AB XB = A = A = (AB) AB XB = (AB) AB B	1
~	(ABIABX BB (ABIAB	1) 2AX- X = 3B
_	X = (AB) AB	(2A-Im)X: (2A-Im): 3B
\		2A-Im)" (2A-Im)X= (A-Im)". 3B
K.		Im
		X = (2A-Im) 3B
	1.\	
	4) regara de Cramer	x: det (Ax) = 78 : 3
150	2x + 6y=18	det (A) 26
F	12 - 01	ON THE STATE OF TH
	2 6 18	y: det (Ay) : 52 . 2
	det (A) = 18 + 8 = 26	olet(A) 26
>	det (A): 1 -4 -6+72	
	18 6	(x, u) = (3, 2)
-	· det (Ay) = 3 1 = 54 - 2	· 52
1	2 18	5 /
W		Level Her T. I
*	b) 5x + 8y = 34	· det (A) = 30 - 80 = 0
	10x+16y=50	5.893
	5 8 : 34	det (Ax) = det (Ax)
	10 16 50	0 1
1-		1+1000 1+1000
2	Maria.	det (Ay) = det (Ay)
	THE STATE OF THE S	FORON
V		

0 x + 2y: 5
11-21-51-6 y= dot (Ay) = -14.2
2-3 -4 det (A) -7
det (A) 3 - 4 = - 7 (x,y) - (1,2)
det (A) = 5 2 = -15 + 8 = -7
-4-3
det (Ay). 1 5 -4-10:-14
12-4
d) 3x + 2y - 5y = 8
- 22 = -4
X - 2y - 32 - 4 3 2 - 5 3 2 8 1
3 2 - 5 3 2 8 4
2-4-2 2-4=-4
11'-2'-3'1-2 -41
det (A): 36-4+20-(20+)2-12)
= 36-4+20-20=32,
· det (Ax) = 8 2 - 5 8 2
-4 -4 -2 -4 -4
-4-2-31-4-2
= 96 + 16 - 40 - (-80 - 32 + 24)
= 96+16-40+80+32-24=160,
· det (Ay): 3 8 -5 3 8
2 -4 -2 2 -4
: 36 - 16 + 40 - (20 + 24 - 48)
· 36 - 16 + 40 - 20 - 24 + 48 = 64
det (A3) = 3 2 8 3 2 2 4
1 -2 -4 1 -2
= 48-8-32-(-32+24-16)
FORON: = 48-8-3/2+3/2-24+16=32
10humi - 70 - 70 - 24 + 10 = 32

BOOKORA STOPP BUT SOME WORKER OF THE



$\begin{cases} 1 & 1 \\ 1 & 2x - 4y = -4 \end{cases}$
3x-2y-57=26
2 -4 0 2 -4 = -4
12-2-5 3-2 26 10+(A) = 20+0-12-(-36+0-0)
= 20-0-12-36=44
het (AN): -8 0 3 -8 0
= -160+0+24-(-312-0-0)
= -160 + 24 + 312 = 176
det (Ay): 1 -8 3 1 -8 2 -4 0 2-4 3 26 5 3 46 - 20 + 0 + 156 - (-36-0-80) = -20 + 156 + 36 + 80 = 252
det (Az): 1 0 -8 1 0 2 -4 -4 12-4 3 -2 26 3 -2
= -104+0+32-(+96+8-0) = -104+32-96-8=-176
· x = 176 = 4 y= 252 = 8 2: -176 = . 4
(x, y, z) = (4, 8, -4)
FORON:

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3x + 2y + 3z : 10 3x + 4y + 3z : 23 3x + 4y + 3z : 10 1 2 3 4 2 10 3 4 6 3 4 13 det(A): 12 36 + 13 - (36 + 12 + 18) .x.det(Ax) . det(Ax) det(A) . det(Ax) det(Ax) . det(Ax) A: S= 10! 5) 3x - 4x 2: 0 xepresentana a mesma veta con infinite pentes b) x + 4 + 2 : 0 2x + 2y + 4y : 0 2x + 4y + 4y : 0 det(A) = 6 + 4 + 2 - 2 - 4 - 6 = 0 c) x + 4y + 2z : 0 x + 4y + 2z	
3x + 2y + 3z : 10 2	
3x + 2y + 33 : 10 2	
3x + 2y + 3z : 10 2	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$
3 4 6 3 4 = 13 3 2 3 3 2 10 det (A): 12 + 36 + 18 - (36 + 12 + 18) . x. det (Ax). det (Ax). det (Ax). det (Ax). det (Ax). det (A): 0 det (Ax). det (Ax). det (Ax). A: S= 10! 5) ax (3x, - 4xa: 0): (-2) & SPI, as duas equactes -6x, +8xa: 0 sepresseriam a mesma vector com infinites pentes b) x + 4 + 3 + 0 det = 0: SPI, ha apenas x + 4 + 3 + 0 det = 0: SPI, ha apenas x + 4 + 2 = 0 x +	92 25
3 4 6 3 4 = 13 3 2 3 3 2 10 det (A):	
det (A): 12 + 36 + 18 - (36 + 12 + 18) . x. det (Ax): det (A) det (A) det (A) or det (Ax) det (A) det (A) or det (Ax) det (A) or det (Ax)	2 (1 () 2 ;
- x: det (Ax) - det (A	1.1/10 3 2 3 3 2 10
det (A) 0 det (A) det (A) A: S= 10! a) 3x ₁ -4x ₂ : 0 det (A) det (A) b) x+y+2 det (A) con infinite penter b) x+y+3y: 0 det = 0: SPD, ha grenos con infinite penter det (A) = 6 + 4 + 2 - 2 - 4 - 6 = 0 c) x+y+2 det (A) det (= 0
det (A) 0 det (A) 1 det (A) 2 det (A) 2 det (A) 2 det (A) 2 det (A) 3 det (A) 3 det (A) 3 det (A) 3 det (A) 4 det (A) 4 det (A) 6	(1- 00/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/
5) a) 3x, - 4x, = 0 (-2) & SPI, asduas equações -6x, + 8x, = 0 vepresentam a mesma veta com infinitos pontos b) x + y + 3 = 0 vera unica isolução 2	det (A) 0 det (A) of det (A)
a) $3x_1 - 4x_2 = 0$ (-2) $3x_1 - 4x_2 = 0$ xep x	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
com infinites pontes $ \begin{array}{cccccccccccccccccccccccccccccccccc$	-6x +8 s of (-2) A SPI, asduas equation
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	con infinito contentam a mesma vieta
2 + 4 + 3 = 0 $2 + 4 + 2 = 0$ $2 + 4 + 2 = 0$ $2 + 4 + 2 = 0$ $2 + 4 + 2 = 0$ $2 + 4 + 2 = 0$ $3 + 4 + 2 = 0$ $4 + 4 + 2 =$	
2 + 4 + 3 = 0 $2 + 4 + 2 = 0$ $2 + 4 + 2 = 0$ $2 + 4 + 2 = 0$ $2 + 4 + 2 = 0$ $2 + 4 + 2 = 0$ $3 + 4 + 2 = 0$ $4 + 4 + 2 =$	2x + 2y + 4x : 0
$det(A) = 6 + 4 + 2 = 2 - 4 - 6 = 0$ $c) x + y + 2z = 0$ $x - y - 3z = 0$ $x + 4y = 8$ $\begin{vmatrix} 1 & 1 & 2 & 1 & 1 \\ 1 & -1 & -3 & 1 & -1 \\ 1 & -1 & -3 & 1 & -1 \\ 1 & -1 & -3 & 1 & -1 \end{vmatrix}$ $dot = 0 - 3 + 8 - (-2 - 12 \cdot 0)$ $dot = -3 + 8 + 2 + 12 = 17 (520)$	U. J. DI
det(A) = 6 + 4 + 2 - 2 - 4 - 6 = 0 $c) x + 4 + 2 = 0$ $x - 4 - 3 = 0$ $x + 4 = 8$ $1 - 1 - 3 - 1 - 1$ $1 - 1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 - 3 - 1$ $1 -$	
c) $x + y + 2z = 0$ x - y - 3z = 0 x + 4y = 8 $\begin{vmatrix} 1 & 1 & 2 & 1 & 1 \\ 1 & -1 & -3 & 1 & -1 \\ 1 & 4 & 0 & 1 & 4 \end{vmatrix}$ $dot = 0 - 3 + 8 - (-2 - 12 \cdot 0)$ $dot = -3 + 8 + 2 + 12 = 17$ $\Rightarrow 20$	
x - y - 3x = 0 $x + 4y = 0$ $ 1 - 1 - 3 - 1 - 1$ $ 1 - 1 - 3$	det (A) = 6 + 4 + 2 - 2 - 4 - 6 = 0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	c) x+y+20=0
$\frac{1 \cdot 1 \cdot 2}{1 \cdot 1 \cdot 3} \cdot 1 \cdot 1$ $\frac{1 \cdot 1 \cdot 3}{1 \cdot 4} \cdot 0 \cdot 1 \cdot 4$ $\frac{1}{4} \cdot 0 \cdot 1 \cdot 4$ $\cot = 0 - 3 + 8 - (-2 - 12 \cdot 0)$ $\cot = -3 + 8 + 2 + 12 = 17 (SDD)$	x-y-32=0
det = -3+8+2+12 = 17 SPD	1 1 1 5 1 1 1
det = -3+8+2+12 = 17 SPD	1 -1 -3 1 -1
det = -3+8+2+12 = 17 SPD	dot = 0 = 3 + 0 /
FORON	
	FORON:

6)	
6)	
0 1	
a) (3x+my=2	
C & - Q = 1	
3 m = 2	
1 (2)	
det (A) = -3-m	<u> </u>
det \$ 0 => -3-m \$ 0	
m #-3 : SPD p/ tod	es os valoros, exceto
(-3)	
9 V. A.E.	
	<u> </u>
0) (3x + 2(m-1)y=1	
lmx - 44=0	
3 2m-2 31	
vm - 4 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
dot (A) = - 12 - 2m + 2m = 2m + 2	ma-12 \$0
= m = m	+670
1-1-24=-23 SPD p/ tode	
diferentes de	
2) x-u=2	7 3 4 4 4 5 1 5 5
2) 2 2	
x + may - of	
1 - 1 61 21 det 7	4 ()
m 0 = -3 -m+	170
3+3	/+ 1 n
t= (-1) (-1) 1 -1 SPI	Doltodos os valore,
1 m secoto	1 T
t= - 1 2 - m + 1	
- m	
	me son sitting
Foroni	AE

