INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA DE SÃO PAULO – CAMPUS CUBATÃO

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Data: 09/06/2021

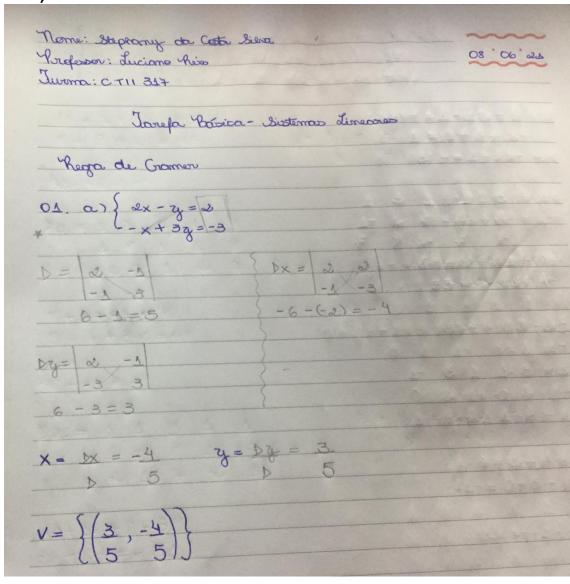
Turma: CTII 317

TAREFA BÁSICA – SISTEMAS LINEARES – REGRA DE CRAMER – ESCALONAMENTO (Gauss)

QUESTÕES

REGRA DE CRAMER

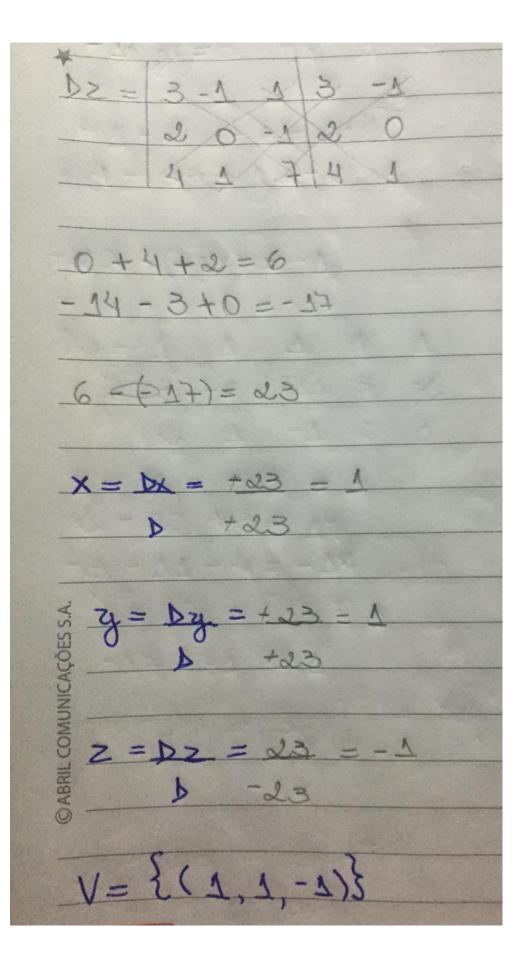
01. a)



b)

$\begin{cases} 3x - 3y + z = 1 \\ 0x + 3z = -1 \\ 4x + 3y - 2z = 7 \end{cases}$	
D=3-13-1	
2 0 3 2 0	
4 1 -2 4 1	
0-12+2=-10	
* 4+9+0=13	
* * -10-13=-13	

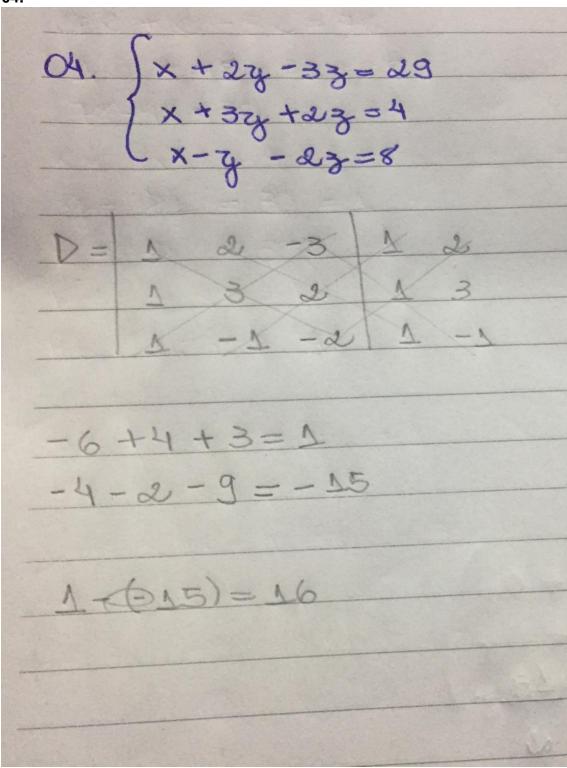
Dx = 11 -1 1/4 -4
-103-10
7 1 -2 7 1
0-21-1=-20
-2+3+0=1
Dx = -22 - 1 = -23
1
Dy = 3 1 1 3 1
3 3 -1
4 7 -2 4 7
6+12+14=326-67
-4+63-4=55
17-12 (A) (B) (B) (B) (B) (B) - A-1
32-55=-23
U - 24 - 3 = 9 - 1 4 8 3 3 4 8 3 4 4 8 3 4 4 8 3 4 4 8 3 4 4 8 3 4 4 8 3 4 4 8 3 4 4 4 4
DZ = 3-1 13 -x
20-120
44744
0+4+2=6
-14-3+0=-57
A STATE OF THE STA
6 = (44) = 23

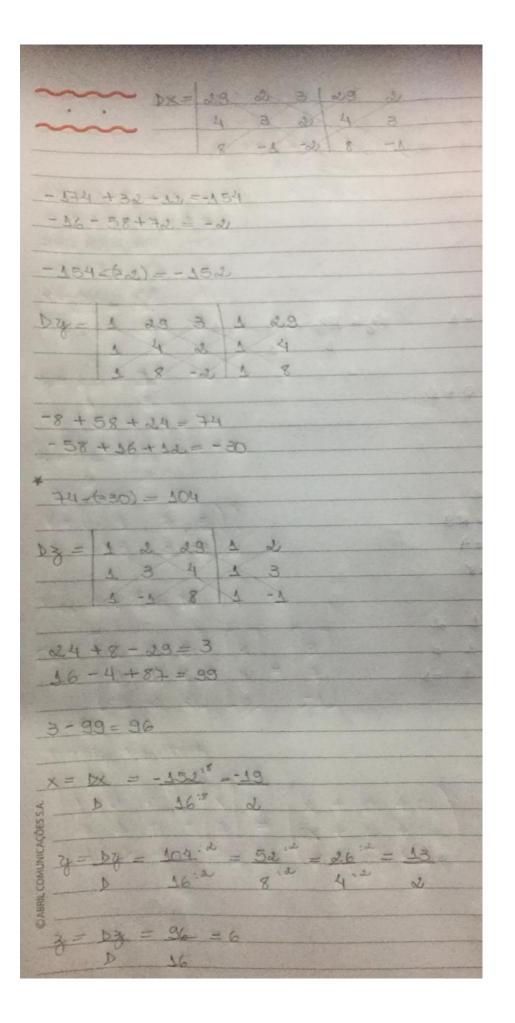


02.
D= 3 4 -4 3 4 4 5 2 4 5 1 -2 3 1 -2
45+8+8=61 *48-12-5=31 61-31=30
Dy = 3 1 -1 3 x 1 32 2 4 12 1 8 3 1 8
108 + 2 - 32 = 78 12 + 48 - 52 = 48 78 - 48 = 30
y = Dy = 30 = 1 $D = 30$
nesposta: Letra A.

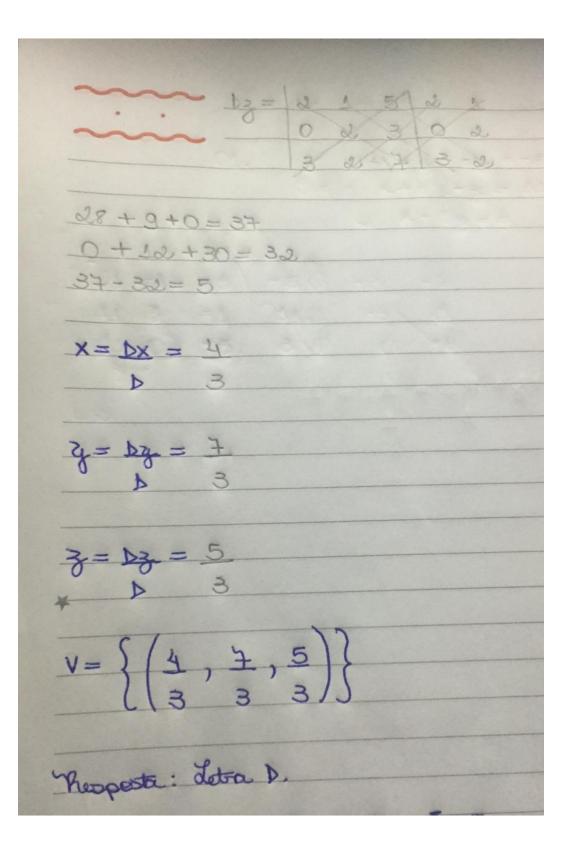
$03. \begin{cases} x + 2y + 3 = 1 \\ 3x + 2y - 12 = -2 \end{cases}$
(2x+3y-3=1)
D= 1 2 1 1 2 1 3 1
1 3 -1 2 3
-1-44+9=-36
-6-33+2=-37
-36 = (3+) = 1
Dx = 1 2 1 2
-2 1 -11 -2 1
* 1 3 - 1 3
-1-22-6=-29
4-33+1=-28
-29 E(Da8) = -1
Dy= 1 1 1 1 1
Dy = 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12/1-121
2-20+3=-17
-3-11-4=-18

Dz= 1 2 1 1 2	
3	
3 1 2 3	-
1 2 3 1 2 3	
1-8+9=2	10 13 To 1
6-6+2=2	10 T. 4
2-2=0	
- CC - C	
*X = DX = -1 = -1 \ 3 = D3 = 1	- 10
A A A	
21016	
a+ w+c=-x+0+1	
a+ &+ c=0	
	CHE
-	
Resporta: Litra C.	





x + y + 3 = -19 + 13 + 6 x + y + 3 = -19 + 19 x + y + 3 = 0Theoreta: Letta A.



06.		2		0		x =	3 7			-
		L-7	مل	2.		3]	[-7]			
m	thir	8 -R	thrac	amb						
. T	this	8 8	tua	and	X		(x +	0	+ 0	
, \	-	0	o T	amb	X	3	x + 2x +	9	+0	1

 $\begin{cases} x + 0 + 0 & = 3 \\ 2x + y + 0 & = 4 \\ -x + 2y + 2y & = 4 \\ -x + 2y + 2y & = 4 \end{cases}$ $\begin{cases} x = 3 \\ -x + 2y + 2y & = 4 \\ -x + 2y + 2y = -4 \end{cases}$ $\begin{cases} x = 3 \\ -x + 2y + 2y & = 4 \\ -x + 2y + 2y = -4 \end{cases}$ $\begin{cases} x = 3 \\ -x + 2y + 2y = -4 \\ -x + 2y = -4 \end{cases}$ $\begin{cases} x = 3 \\ -x + 2y + 2y = -4 \\ -x + 2y = -4 \end{cases}$ $\begin{cases} x = 3 \\ -x + 2y + 2y = -4 \\ -x + 2y = -4 \end{cases}$ $\begin{cases} x = 3 \\ -x + 2y + 2y = -4 \\ -x + 2y = -4 \end{cases}$ $\begin{cases} x = 3 \\ -x + 2y + 2y = -4 \end{cases}$ $\begin{cases} x$

ESCALONAMENTO

01.

01.	xx-y-3z=-8	S P LANK	-52 = 8
	x -5z = 3	×	+3-y-3=11 -y-3-3-5
(-1) 1 0 -5 3) × 3	30.34	× y z v (0 0 23 125)
(-2) 1 3 -1:1	1 ~ 1 0 3	4:8	~ (0 0 25 125)
1 /2 -1 -3!-	5/ 3/0-1	+1-14	- K-Z
Comos xx 19			- K - J
and the second			+ 2 4 A - No.
25. 3 = 28			
1 2 3 25	1 12 -	- 10 100	The Landson
25,	10000		Level de la
8=-1			
3-14-14	(
34+46-17=8		g -3g = 1-3.1-1)=	
34-4=8		+3=-5	
34 = 8+4		1=-5	
34 = St		-5+1	
7 = 10		-4	
3 2 2 3 3 3		-4	
4=4		-2	

03.

```
04. a + a + c = 68
     er + 20.0=0
    100
   c+ 20. a = 3. sr
   400
            6.5c + n = 100
(4) - 50 +5++0 0 - 15+ + 5c =0
              ~ 5 -5 -4 0 0 0 -10
  Equação
  -136 C = -4760 ) Q+++ C = 68
  C = -4760: 136 ( a+ 13+35= 68
  c = 35 | a = 68-48
               ) c-a
  - 50 cer - 6 c = - 340
  -10--6.35=-340 35-20=15
  - 40 - - 240 = - 340
  -10-1- = -340 + 250
  - 1004 = - 180
  ur = +190:430
  × &= 43
       Respect : Letra A.
                                     tilibra
```

	5. $\alpha = 134,00$ $\omega = 115,00$
~~	c = 48,00
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	134 (-2) 1 0 5 1 115 (-2) 0 0 0 0 115 \(\text{2 1 0 48} \) \(\text{0 1 -10 -18} \) \(\text{1 34} \) \(\text{1 0 3 4 134} \)
~ (0 0	
100	24 1 0801
o o /o	54 7 0807
34.c=680	\a+5c=115 \&-10c=-180
* Edinatas	\ \a + 5c = 115 \ \ \dots - 100 = -180 \\ \a + 5. 20 = 115 \ \dots - 10.20 = 180
> Equação 34.0 = 680 0 = 680	\a+5c=115 \&-10c=-180
34.c = 680 C = 680 34	a + 5c = 115 2 - 10c = -182 a + 5.20 = 115 2 - 10.20 = 182 a = 115 - 100 2 = -182 + 200