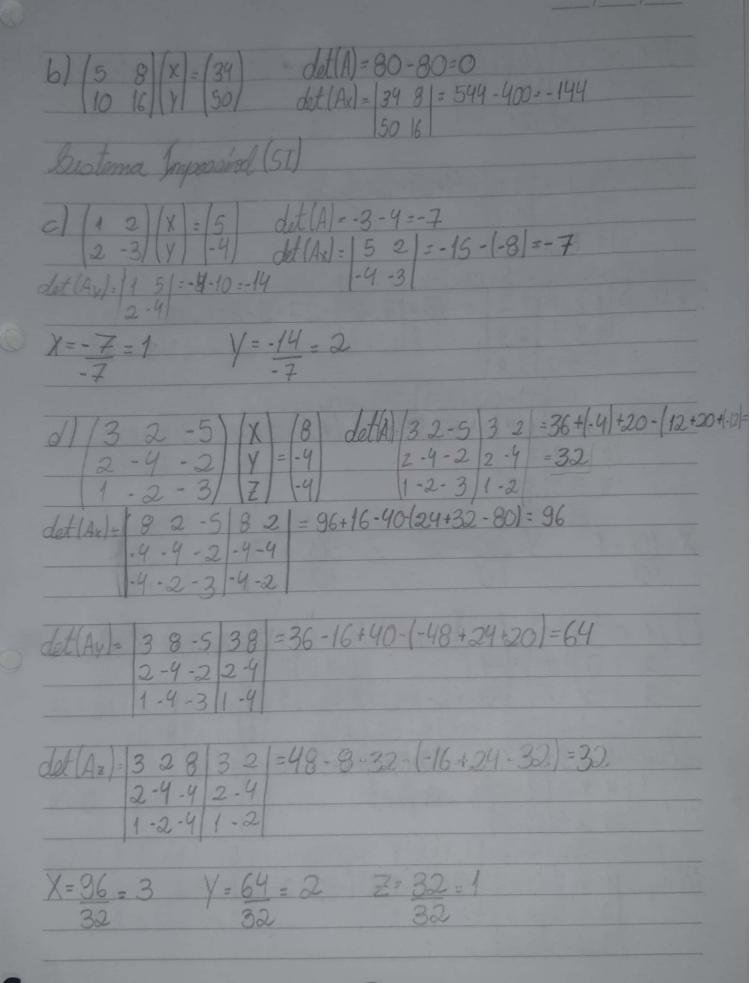
Almao: Suix Felija Barloser Seist RA: 2024. 1.08.013
1- an = 2-1=1
$\int 5 \chi_{2} + 9 \chi_{3} = +1 \qquad l_{2} - l_{1} = 2 \chi_{3} = -6 \qquad 5 \chi_{2} + (-27) = 1$ $\int 5 \chi_{2} + 9 \chi_{3} = +1 \qquad l_{2} - l_{1} = 2 \chi_{3} = -3 \qquad \chi_{2} = \frac{28}{5}$
$1\chi_1 + 3\chi_2 + 9\chi_3 = -1 = \chi_1 + \frac{3.28}{5} + (-12) = -1 = \chi_1 = 11 - \frac{89}{5} = -\frac{29}{5}$
$X = \begin{pmatrix} -3 \\ 28 \\ 5 \\ -29 \end{pmatrix}$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
b) $C + AY = B$ $A^{-1} = -1/5 - 2 = (-5/2)$ AY = B - C $(-3/1)(3/1)B - C = (2/3)(1/7) = (3/10)$ $Y = (-5/2)(3/16)(-5/3)(2/7)(7/12)$ $Y = (-1/7)(7/12)Y = (-5.3)(-1.7)(7/12)$ $Y = (-1/2)(-1/2)Y = (-3.3)(-1.7)(-1/2)$ $Y = (-1/2)(-1/2)$

$C dt(C)=1   10 = 1   C_{11}=+   10   = +1   C_{12}=+   20   = -2   C_{13}=+   21   = 4$ $C_{21}=-   00   = 0   C_{22}=+   10   = 1   C_{23}=-   10   = -3   C_{21}=+   00   = 0$ $C_{32}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 1   C_{24}=+   10   = 0$ $C_{32}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 1   C_{24}=+   10   = 0$ $C_{32}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 1   C_{24}=+   10   = 0$ $C_{32}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{23}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{23}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{33}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{31}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{31}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{31}=+   10   = 1   C_{24}=+   10   = 1   C_{24}=+   10   = 0$ $C_{31}=-   10   = 0   C_{31}=+   10   = 1   C_{24}=+   10   = $
4-31/2/4.5+-3+7+1-2/-3+
3-a) $A \times B = C$   $A \setminus B + X = A$   $A = A \setminus A = A$   $A = A \setminus A = A$   $A = A \setminus A = A \cap A =$
4-a) (3 -4) (x) -(1) det(A) - 9-(-4) = 13 1 3/ y/ (9) det(A) - [1 -4] = 3-(-36) = 39 det(Ay) =  3 1  = 27-1=26   9 3
X=det(Ax)=39=3 Y=det(Ax)=26=2 S=(3) det(A) 13



e) $\begin{pmatrix} 1 & 2 & -1 \end{pmatrix} \begin{pmatrix} x \end{pmatrix} \begin{pmatrix} 2 \end{pmatrix} det(A) = 1 & 2 & -1 & 1 & 2 & = 2 + 18 - 6 - (+3 + 9 - 8) = 10$ $\begin{pmatrix} 2 & -1 & 3 \end{pmatrix} \begin{pmatrix} y \end{pmatrix} = \begin{pmatrix} 9 \end{pmatrix} det(A) = 1 & 2 & -1 & 1 & 2 & = 2 + 18 - 6 - (+3 + 9 - 8) = 10$ $\begin{pmatrix} 3 & 3 & -2 \end{pmatrix} \begin{pmatrix} 2 \end{pmatrix} \begin{pmatrix} 3 \end{pmatrix} \begin{pmatrix} 3 & 3 & -2 & 3 & 3 \\ 3 & 3 & -2 & 3 & 3 \end{pmatrix}$
det (Ax) = 22-1 22 = 4+18-27-(-36+18+3) = 10 9-13 9-1 33-233
det (Ay)= 12-1 12 = -18+18-6-(-27+9-8)=20 293 29 33-233
det (Az)= 122 12 = -3+54+12-(12+27-6)=30 2-192-1 333333
X=10=1 Y=20=2 Z=30=3
F) (103) (x   -8   det(A)= 103 10 =20+0-12-(0+0-36)=44   2-40  y = -4   2-40 2-4     3-2-5/  Z   26     3-2-5 3-2
det(A)= -803 -80 = -160+0+24-(-312+0+0)=176 -4-40-4-4 26-2-9 26-2
det (Ay)=   1-83   18   =-20+0+156-(-80+0-36)=252   2-40   2-9

det(A=)-10-8 10 = -109+0+32-(96+8+0)=-176
. 5 0 10 1
X=176=4 Y=252 Z=-176=-4
9) 123 X (10) det(A) = 123 12 = 12+36+18-(18+12+36)=0 346 34 323 Z (10) 323 32
det(Ax) = 10 2 3 10 2 = 120 + 120 + 138 - (138 + 120 + 120) = 0 23 4 6 23 4 10 2 3 10 2
det(Ay = 1 10 3 1 10 = 69 + 180 + 90 - (90 + 60 + 207) = -18 3 23 6 3 23 3 10 3 3 101
Biolema Impossível
5-0 (3-9)(x, =0) det(A)=24-24=0 -6+8 (x, =0) det(Ax)=0-4=0 det(Ay)=30=0 -60=0
X=0 Y=0 S=0 Belucies limicas
b) 111   x   8 dat (A) = 11 1 1 1 1 = 6+4+2 (6+4+2)=0



det (Ax) = 0 1 1 01 = 0 det (Ay)=10 1 10 = 0 det (Az) 110 11 = 0  0 2 4 0 2 2 204 20 220 220 220 220 21 10 11 10 11
X=0 Y=0 Z=6 S=(000) beluções infinitas
c) $(112) (X) (0) det(A) = 11211 = 0+3+8-(0+12+(-2))=1$ (1-13) (Y) = 0 (140) (Z) (0) (140)
det (Ax) = 0 1 2 0 1 = 0 det(Ax) = 102 = 0 det (Ax) = 110 = 0
X=0 Y=0 Z=0 Bolução Unica S=(000)
$6-a)(3 m)(x)-(2) det(A)=-3-m\neq 0$ $1-1)(y)=1$ $m\neq -3$
b) $\frac{3}{m} = \frac{2(m-1)}{4} = \frac{1}{4} = \frac{1}{4} = \frac{12 - (2m^2 - 2m)}{4} = \frac{12}{m} = $
$\frac{C \left(1-1\ 0\right)\left(\frac{x}{x}\right)\left(\frac{2}{y}\right)}{\left(\frac{1}{y}-\frac{1}{y}\right)}\frac{det(A)+1-1}{\left(\frac{1}{y}-\frac{1}{y}\right)}\frac{1-1}{y}=\frac{-m+1+0-(1+1+0)}{-m+1+0}=\frac{1-1}{y}$
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$\frac{d}{m} = \frac{1}{m} + \frac{1}$
$=1+(-(m-m)=2m+2\neq0$ $m\neq-1$
$7-6x-2y=750 \Rightarrow \begin{pmatrix} 6-2 \\ 1 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 750 \\ 225 \end{pmatrix} det(A) = 6-(-2)=8$
detAx = 750-2 = 750 + 450 = 1200 det  Ay   = 6 750 = 1350 - 750 = 600
$\chi = \frac{1200}{8} = 150$ $\gamma = \frac{600}{80} = 75$
8-(0,6x+0,2x = 300 =) (0,6 0,2) (x) - (300) deth) - 0,6-0,2=94 [x+y=540] (y) (540)
det(Ax) = 300 a2 = 192 det (Ay) = 6,6 300   = 324-300 = 24
$X = \frac{192}{0.4} = 480$ $Y = \frac{24}{0.4} = 60$
9-2X+5Y+10X=500 = (12 5) (X)=(500) dx (A)=12-10=2 2X+Y=92 2 1 (Y) (92)
det (Ax) =   500 5   500 - 460 = 40 det (Ax) =   12 500   = 1104 - 1000 = 104
X= 40 = 20 Y= 604 = 52

