01003

b. 1 0004 1 1 1 +1

C 1 0 0 -7 8 0 1 0 3 2 0 0 1 1 -5

-: logo, solução (x, y, g, h): (4,3,2,2)

 $\widetilde{E}X = \widetilde{B} \iff \begin{bmatrix} 1 & 0 & 0 & -7 \\ 0 & 1 & 0 & 3 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \\ y \\ z \\ -5 \end{bmatrix}$

x-7h=8 [x=7h+8

8+3h=2 8+-3h+2 3+h=-5 8-h-5

$$\begin{array}{c} \text{A} & \text{$$

· logo x, y, y são dependentes uns dos outros.

2) a.
$$\begin{bmatrix} 2 & 1 & 2 & 3 \\ 2 & 1 & 3 \end{bmatrix} = \begin{bmatrix} 3 & -4 & 1 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 3 & -4 & 1 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 1 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2 & 3 & 9 \end{bmatrix} \rightarrow \begin{bmatrix} 2 & 4 & 2 \\ 2$$

Sietema equivalente:

.: Solução (x,y)=(3,2)N

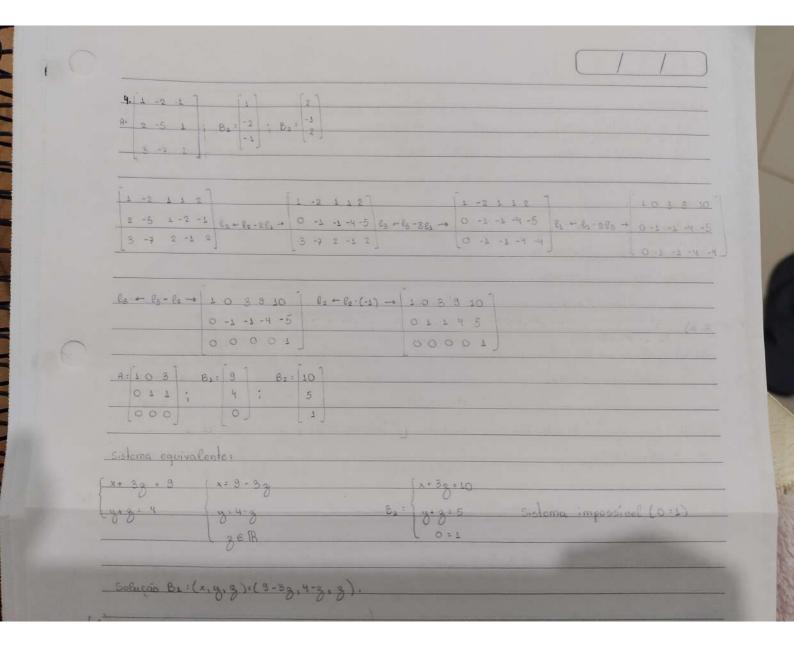
Sistema equivalente:

$$\begin{cases} \frac{5}{8} \times + y = 2 \\ 0 \times + 0y = 18 \end{cases} \Rightarrow 0 = 18$$

+ 0=-18 "Portanto, esse sistema não tem solução (SI)

$$\begin{cases} (x^{2})^{3} = 5 \\ (x^{2} - 2)^{3} = 5 \\$$

Sistema envivalente:



9-1205]	(A+4 IB)*	1+4 0 5		505	11	×.1		7		
2 2 4		7 7+4 7								
6 - 1	N. C. Com	0 1 -4+	4	010		X3	t	0)		
5x1 + 5x3 = 0	x1 + X3	= 0								
	0 (x1=-x2		Х -	[x] =	cal		Det	.0.		
x2:0				-x ⁷		er Cerre	0			
				[-x]				-	-	
7977	X3 €	18	-		-		-			
			70-12		-	-				-
b) AX=2X		1 1 1 1 1								
A X - 2X = 0										
X (A-2In):0									
	(A-2In):	11-005	1	[-1 0 E	-					
1 1 1 1		1 1-2 1						-1 1	-	
0 3 -	4	0 1-4								
		L		L			-			
-1 0 5 0	1	0 -1 6 0	1		0	00	0]		100	0
1 -1 10	les + les + les →	1 -7 10	Ps	+ 62+63-4	1 -	7 7	0	Ez + Ez + E	3 - 1 0	-5.
0 3 -6 0		0 7 -0 0			0	7 - 6	0]		0 4	-6
	11-12-1									
,				1						
x3 - 5 x3 - 0	x3 = 5x8	X F	5×3	- Solução	io 95	Sons				
x1-5x2-0 x2-6x5-0	x2:6×8	40 7 400	WKB		0					
	THE RESERVE OF THE PERSON NAMED IN	THE RESERVE OF THE PARTY OF THE	Xs							

6. a) 2 3 (a=1)(a+1) 0 1 (0-3) (0-3) 0 0 (0-3) (0-4) Solução: · Sistema não tem solução: a=+ 13 · Sistema com solução unica: a # = \3 · Sem solução = Não ocorre para nenhum a. 6) 1 2 -8 4 3 -1 5 2 4 1 (a²-14)(a+2) $\begin{bmatrix} e_2 + e_2 - 3e_1 - 6 & 1 & 2 - 3 & 4 & 1 & e_3 - 4e_1 - 6 & 1 \\ 0 - 7 & 14 & -10 & 0 & 0 \\ 4 & 1 & (a^2 - 14) & (a + 2) & 0 & 0 \end{bmatrix}$ 0 -7 (02-2) (0-14) 0 -7 (a2-2) (a-14)

spiral

l. + l2l2-0	1 0 1 8/7	ls + ls + 7 lz →	1 0 1	8/3	100	
	0 1 -2 10/7		0 1 -	2 10/7		
	0 -7 (a2-2) (a-24)		0 0 6	2-16)(0-4)		
					- 14.0	
Solução:		CONTRACTOR OF	23 1		P.	
Solução:	tem solução: a = 4		22 /		211	

E= 140, 7. a) 2 3 110 1 0 1 2/4 A-7 = 1/8 1/4 -3/8 1/4 -318 1/4 TO 1- 1 1- P-1 2 1 0 1 0 le -le -le - 1 2 1 0 1 0 le +le -le -0 6 2 -1 2 0 12-61-613-1 -1 0 0 2-6 12+123-1 0 1-1 0 0 1 12+12+412 - 0 1 -1 0 0 1 13-13/8 7 -7 0 0 7 0 0 8 -1 2 -6 0 0 8 -1 2 0 1 -1 0 0 1 0 +01+505 -0 4-7 0 0 7 l2 + l2 + l3 -0 1 0 - 7/8 0 0 1 -3/8 -314 4/4 007 1 (03-14) (0+5) 0 -7 14 - 50 4 1 (0°-14) (0+2) 0 -> 14 -10

spiral"

10 10 10 10 10230010 0145-1020 61+61-263-0145-1020 64-64-6-0145-1020 83-+84 0 00-621-4-2 64-64(-2) 00-200001 0 0 0 -6 2 1 -4 -2 10001 1/3 -1 2/3 10030011 0 1 4 5 -1 0 2 0 0 0 1 0 0 0 0 -1/2 00 10000 0 -1/2 0 0 0 3 -313 -310 813 313) 0001-1/3-1/6 2/3 1/3 10001 1/3 -1 2/3 0 1 0 0 2/3 5/6 -4/3 1/3 0105-1022 82+ 82-584+ 00100000-42 0010000-1/2 0 0 0 1 -3/3 -3/6 2/3 3/3 0 0 0 1 -313 -316 213 313 2/3 516 -413 0 0 -1/2 1/3.

8. (c+ 25 + 86 = 26 (3)	(E) - 2 (D)	0 - 3	25+26=20
2c+50+6b+60 @	2c+5s+8b=60	(2c +55 +6 b = 60	6+6+10 -68+6=10
2c+35+4b=40 3	2c+4s+6b =52	20+35+46:40	6.2
	\ S \:8,	\ 25 + 2b = 20 -+	
c+2(8)+3(2)+26	. Os precos un tario	s da calça, blusa e short	s são, respectivomente
c+16+6:26	4, 2 e 8 regis.		, and a second
c= 4,			
· (5s + 2c + 6b = 2.200	3b=b+= 5(2b)+2((-) X =)	
		(3b) + 6b=2200 5=21	c: 300,
(c: 3b	2b=s 10p+ep	+6b=2200 9=20	00,
(c=b+5	22b= 22	.00	
The second	p= 700	٥,	
	1 - 1 101		TIPS CONT
	T. N.		
ot +305 +10p = 7000	9t + 3s + p = 700	(2t + 4s +3p=600	4t+3s+50=700
20t + 405 + 30p = 6000	- 2t+4s+3p=600	2t + 45 +8p= 1000	46+85+16(80)=2000
and the second s	b+29+4p=500	\ \ 5p = 400	146+35 = 620
sot +205 +40p = 5000			46 + 85 = 720
10t +200 +40p : 5000		p= 80,	16 3 05 = 720
) + 320 = 500	p= 80 _y	-55=-100

11. (2A+3B+1C=8420	3B:8110-4A	A+2(8110-4A)+2(310+2A)=7940
A+2B+2C=7940	2A + 8110 - 4A + C = 8420	(3 /
4A+38-8110	-2A +C= 310	A + 620 + 4A + 16220 - 8A = 7940
Charles and the second	C= 310 +2A	3
1950-820:1130		3A+1860+12A+16220-8A=23.820
	4 (820) + 3B = 8110	7A = 57 40
: O comprimento da major	32 80 +38 - 8110	A: 820, C: 1950,
excede a menor em 1130 m.	38:4830	
	8 = 7670	