G.A Gulherme Falcucci 2025.1.08.027

 $4 = \begin{pmatrix} 1 & 0 \\ 2 & 7 \end{pmatrix} + \begin{pmatrix} 0 & 10 \\ 6 & -4 \end{pmatrix} - \begin{pmatrix} 1 & 10 \\ 8 & 3 \end{pmatrix}$ 

 $B = \begin{pmatrix} 1.0 + 0.3 & 1.5 & 0.(-2) \\ 2.0 + 7.3 & 2.5 + 7.(-2) \end{pmatrix} = \begin{pmatrix} 0.1 + 5.2 & 0.0 + 5.7 \\ 3.1 + 2(-2) & 3.0 + -2.7 \end{pmatrix}$ 

 $\begin{pmatrix} 0 & 5 \\ 21 & -4 \end{pmatrix} - \begin{pmatrix} 10 & 35 \\ -1 & -14 \end{pmatrix} = \begin{pmatrix} -10 & -30 \\ 22 & -10 \end{pmatrix}$ 

() hão é possivel ORDEM \$

7)	1-6	1	-4	\	16	- 3	-18	1	1-12	5	14
	4	2	0	-	12	0	0	] =	-8	2	0
74 TH	0	8	4/		-9	-12	-3/	/	9	20	7

2 11 8 -4 0 0 2 3 12 4 = -10 -4 4 -2 0

- 3 -8 2 4 - 12 1 0 -3 2 -23 - 4 -11 0 = 4 1 4 - 7 -8 -2 0 2 -16

3 -16 9 +33 7 1 -14 -12 8

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03	(T)	00	00
00	M	3	99

73

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(C) (F)

F) [-2 7°   1 6   -2+14 0+49
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
F= (12 49)
-3 -21
\-11 -14
G) mão foi possivel orden + (AC)
The position of the same of th
H) [1-20]. 2 43
-1 0 -4 = (4 5 5)
1-6 0 -1
$I \setminus \{0, 6\}, \{-2, 3, -7\}, BC = \{36, -16\}, \{-10\}$
$\frac{1}{3} - \frac{1}{2} = \frac{1}{3} - \frac{1}{20} = \frac{1}{3} - \frac{1}{17}$
F-1 PCF= 35+(-15 -2)+(-10.0) (65)
[-20x1) (15x-2) (-17x0) [-50]
101
2) A) 2xy BA = N.
~
B) 4x2 BA = N C) Ñ -BA = Esta defendo
D1 5×3 BA = N
e) Ñ BA=Ñ
1) 4x4 BA = Esta defendo
G1 2x3 1 BA= N
H) 2x2 BA= Eva defende

[Jandaia]

$\frac{3}{4} = \begin{pmatrix} 1 & -1 & -3 \\ 4 & 2 & 0 \end{pmatrix}$	
$B = \begin{pmatrix} 4 & -1 & -1 \\ 3 & 8 & 1 \\ 4 & 7 & 12 \end{pmatrix}$	
C= 1 2 3 4)	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	· · · · · · · · · · · · · · · · · · ·
$9 \mid A = 20$ $0 = -7$ $0 = -32$ $0 = 10$ $0 = -13$ $0 = 3$	
$B A_{23} = (2 \cdot 1) + (-1 \cdot 2) + (4 \cdot 5) = 20$ $A B_{23} = (-2 \cdot 3) + (-3 \cdot 4) + (2 \cdot -7) = -32$ $B_{31}^{2} = (-3 \cdot 1) (-1 \cdot 2) (-7 \cdot -3) = 16$	
$[A]_{fr} = 6-3 = 3$ $[B^{7}_{1r} = -1+1-7 = -7]$ $[A-B]_{fr} = 0+(-2)+12 = 10$ $(A:B) = (1\cdot1+2\cdot2+-3\cdot1)+(-2\cdot10+3\cdot-1+2\cdot-1)+$	(1.3+
4.4+6.7 = 2+1+(-16)=-13	

Jandaia

5/ARX=3B+C-A	3B=(6 3) C-A=(1 -5)
	[12 9 [-1 -6]
X = 3.5 - 1	
15.5 1,5	2X = 7 - 2
	111 3 1

B) B-C = 
$$\begin{pmatrix} 2 & -1 \\ 3 & 3 \end{pmatrix}$$
 BC =  $\begin{pmatrix} 2 & 3 \\ -1 & 3 \end{pmatrix}$  = BC  $\begin{pmatrix} 1 & 1.6 \\ -0.5 & 1.5 \end{pmatrix}$ 

$$4 = \begin{pmatrix} 1 & 1.5 \end{pmatrix} = \begin{pmatrix} -1 & 7 \end{pmatrix} = \begin{pmatrix} 2 & -5.5 \\ -0.5 & 1.5 \end{pmatrix} = \begin{pmatrix} 2 & 6 \end{pmatrix} = \begin{pmatrix} -2.5 & -4.5 \end{pmatrix}$$

$$X = (B-A)/4$$
  $B-A = 3 - 6$   $X = 3/4 - 6/4$   $2 - 3$   $2/4 - 3/4$ 

d) 
$$2x = 3A + 2B + C$$
  $3A = \begin{pmatrix} -3 & 21 \\ 6 & 18 \end{pmatrix}$   $2B \begin{pmatrix} 4 & 2 \\ 8 & 6 \end{pmatrix}$ 

$$2x = \begin{pmatrix} 1 & 25 \end{pmatrix} \quad \mathbf{X} = \begin{pmatrix} 1/2 & 12.5 \\ 7.5 & 12 \end{pmatrix}$$

$$-Y = \begin{pmatrix} 3.5 & -8.5 \\ 1.5 & -6 \end{pmatrix}$$
  $Y = \begin{pmatrix} -3.5 & 8.5 \\ -1.6 & 6 \end{pmatrix}$ 

6) 
$$A^2 = A \cdot A = \begin{pmatrix} 1 + 1/x \cdot x & 1/x \cdot 1/x \end{pmatrix} = \begin{pmatrix} 2 & 2/x \\ x + x & 1 \cdot 1/x \cdot x \end{pmatrix} = \begin{pmatrix} 2 & 2/x \\ 2x & 2 \end{pmatrix}$$

Jandaia

A= 2A	
A3= A. 2A = 2. A2	
A3 = 2.(2A) = 4A	3
A4 = A. A3 A. 4A = 4 (2A) = 8A	· · · · · · · · · · · · · · · · · · ·
A= 2m-1	70 ° V
7)0A(B+C) = AB+AC = X+Y	(
b) (BA) = x	1 2
$-\omega(CA)^{T} = Y^{T}$	8
dI(AB)AC = X.y	· · · · · · · · · · · · · · · · · · ·
	N S
$(5) A^{7} = (4 2x-3) 2x-3 = x+2$	A= (4 7)
x+2 x+11 2x=x+5	7 6
2x-x=5	
1x=5)	
BI-B= 0 4-2 B1 0	X Y
-x 0 -1+Z 4	0 22
· -1 -22 0 2	1-7 0
X = -(-4) = 4	
Y = -2	
27 = - (1-2)	1 1
27:-1+7	37=-1+2+3,
27-2=-1	-2+32=2
Z = - L	21 = 2
	[2=1]
$9/3 \times 34/ \times 4 = 3 \times 34 = 1$	6+2+4 37=27+3
32 3T 4=3x-x -4.31=	
2 = 4 21 =	1
x=2  $ y=1 $	
	<u> </u>

