

57/86+4d=0 . (3) (57/86+4d=0 . (10)
(36-10d=1.(-7/8)) $(36-10d=1.(4))$
\$21/86+12=0 {-21/86+70/8d=-7/8+ }126-40d=4
(-21/86+70/8d=-7/8 126-40d=4)
0+12d+70d=-7 $0+70b+12b=4$
1 8 8 8 1 1
$\frac{96d + 70d = -7}{8} \frac{706 + 366 = 4}{8}$
166d = -7 166b = 4
8 1 8 1 1 0 1 - 22:2 - 1 - 16
$d = -7$ $b = 4.8 \Rightarrow b = 32:2 \Rightarrow 6 = 16$ 166 $166:2$ 83
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Portanto, $A^{-1} = \frac{40/83}{56/83} \frac{52/83}{-7/166}$
0 = 2+0 = (13) 43 34 (3) 43 34
2) (2.5) Escreva em porma de tabela as matrices. A e B dadas por:
A= (ais) 3x3 tal que ais = (-i') - (-j')
B=(b13)3x3 tal que b1j=F(i)+F(j), para F(x)=x+2
Determinar A=[a11 a12 a13] = A=[0 3 8]
Determinar $A = a_{11} a_{12} a_{13} = A = 0 3 8$ $\begin{array}{ c c c c c c c c c c c c c c c c c c c$
$Q_{11} = (-1^{2}) - (-1^{2}) = -j - (-j) = -j + j = 0.$
$\frac{\alpha_{12} = (-j^2) - (-2^2) = -j - (-4) = -j + 4 = 3}{\alpha_{13} = (-j^2) - (-3^2) = -j - (-9) = -j + 9 = 8}$
€ = (-3²)=(-3²)=-3=(-
$021 = (-2^2) - (-1)^2 = -4 - (-1) = -4 + 1 = -3$ $021 = (-2^2) - (-2^2) = -4 - (-4) = -414 - 0$
$Q_{23} = Q_{21} = (-2^2) - (-2^2) = -4 - (-4) = -4 + 4 = 0,$ $Q_{23} = (-2^2) - (-3^2) = -4 - (-9) = -4 + 9 = 5.$

data 17.06. 21

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$$0_{31} = (-3^2) - (-1)^2 = -9 - (-1) = -9 + 1 = -8,$$

$$0_{32} = (-3^2) - (-2^2) = -9 - (-4) = -9 + 4 = -5,$$

$$0_{33} = (-3^2) - (-3^2) = -9 - (-9) = -9 + 9 = 0,$$

B-CLII	114	931				
B= b11 b12 b13]	3	B= 1	6	7	0	7
621 622 623		1	T	Q	0	
631 632 633 J3×3		1	D	0	9	
777		- 4	0	9	TOT	343

$$f(x) = x + 2$$
; $f(1) = 5 + 2 = 3$,
 $f(2) = 2 + 2 = 4$,
 $f(3) = 3 + 2 = 5$,

$$\frac{611}{611} = F(1) + F(1) = 3 + 3 = 6$$

$$\frac{612}{612} = F(1) + F(2) = 3 + 4 = 7$$

$$\frac{613}{613} = F(3) + F(3) = 3 + 5 = 8$$

$$\frac{621}{621} = F(2) + F(3) = 4 + 4 = 8$$

$$\frac{622}{623} = F(2) + F(3) = 4 + 4 = 8$$

$$\frac{623}{623} = F(3) + F(3) = 5 + 3 = 8$$

$$\frac{623}{623} = F(3) + F(3) = 5 + 4 = 9$$

$$\frac{623}{623} = F(3) + F(3) = 5 + 5 = 50$$

$$= \begin{bmatrix} 0+6 \\ -3+7 \end{bmatrix} \begin{pmatrix} 3+7 \\ 0+8 \end{pmatrix} \begin{pmatrix} 8+8 \\ 5+9 \end{pmatrix} = \begin{bmatrix} 6 \\ 4 \\ 8 \end{bmatrix} \begin{pmatrix} 9 \\ 4 \end{pmatrix} \begin{pmatrix} 9$$

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2.2+
$$2B-A^{\dagger}$$
 2. $\begin{bmatrix} 6 & 7 & 8 \\ 7 & 8 & 9 \end{bmatrix} - \begin{bmatrix} 0 & 3 & 8 \\ -3 & 0 & 5 \end{bmatrix}$ para $\begin{bmatrix} 7 & 8 & 9 \\ 8 & 9 & 10 \end{bmatrix} - \begin{bmatrix} -3 & 0 & 5 \\ -8 & -5 & 0 \end{bmatrix}$ transpor

$$= \begin{bmatrix} 6.2 & 7.2 & 8.2 \\ 7.2 & 8.2 & 9.2 \end{bmatrix} - \begin{bmatrix} 0 & -3 & -8 \\ 3 & 0 & -5 \end{bmatrix} = \begin{bmatrix} 12 & 14 & 16 \\ 14 & 16 & 18 \end{bmatrix} - \begin{bmatrix} 0 & -3 & -8 \\ 3 & 0 & -5 \\ 8.1 & 9.2 & 10.2 \end{bmatrix} = \begin{bmatrix} 8 & 5 & 6 \end{bmatrix} = \begin{bmatrix} 16 & 18 & 20 \end{bmatrix} \begin{bmatrix} 8 & 5 & 6 \end{bmatrix}$$

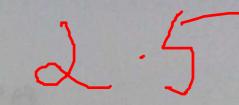
$$= \begin{bmatrix} 12-0 & (14-(-3)) & (16-(-8)) \\ (14-3) & (16-0) & (18-(-5)) \\ (16-8) & (18-5) & (20-0) \end{bmatrix} = \begin{bmatrix} 12 & 14+3 & 16+8 \\ 11 & 18+5 \\ 11 & 18+5 \end{bmatrix}$$

Portanto,
$$2B-A^{t} = \begin{bmatrix} 17 & 17 & 24 \\ 11 & 16 & 23 \\ 8 & 13 & 20 \end{bmatrix}_{3\times3}$$

37 (2.5) Dadas as matrizes booleanas, determinar:

$$A = \begin{bmatrix} 0 & 0 & 1 \\ 1 & 1 & 1 \\ 1 & 1 & 0 \end{bmatrix} \qquad B = \begin{bmatrix} 1 & 0 & 1 \\ 0 & 1 & 1 \\ 1 & 0 & 0 \end{bmatrix}_{3\times3}$$

 $\begin{cases} (OVO \wedge IV \Gamma \wedge IV) & (OVO \wedge IV \Gamma \wedge IV) \\ (OV \Gamma \wedge IV \Gamma \wedge IV) & (OV \Gamma \wedge IV) \\ (OV \Gamma \wedge IV \Gamma \wedge IV) & (OV \Gamma \wedge IV) \\ (OV \Gamma \wedge IV) & (OV \Gamma \wedge IV) \\$



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4-) (2.5) Determinar x e y para que as matrizes

$$\begin{bmatrix} 3/2 \times + 7Y \\ -7 \times + 3/5 Y + 3 \end{bmatrix}_{2 \times 5} = \begin{bmatrix} 2Y + 7 \\ 3/3 \times - 5 \end{bmatrix}_{2 \times 1} = \begin{bmatrix} 3/2 \times + 7Y = 2Y + 7 \\ -7 \times + 3/5 Y + 3 \end{bmatrix}_{2 \times 5} = \begin{bmatrix} 3/2 \times + 7Y = 2Y + 7 \\ -7 \times + 3/5 Y + 3 \end{bmatrix}_{2 \times 5} = \frac{3}{2} \times \frac{1}{2} = \frac$$

$$\Rightarrow \begin{bmatrix} 3/2x + 7y - 2y = 7 \\ -7x - 3/3x + 3/5y = -5 - 3 \end{bmatrix} = \begin{bmatrix} 3/2x + 5y = 7 \\ -23/3x - 3/3x + 3/5y = -8 \end{bmatrix}$$

$$51/2x+5y=7$$
 . (20/3)
 $2-20/3x+3/5y=-8$. (3/2)

$$\frac{520/6\times+500/3}{7-20/6\times+3/509=8/2}$$

2.5

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$$\begin{bmatrix}
J/2x + 5y = 7 \\
-7x - J/3x + 3/5y = -5 - 3
\end{bmatrix} = \begin{bmatrix}
J/2x + 5y = 7 \\
-2J/3x - J/3x + 3/5y = -8
\end{bmatrix}$$

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$$\begin{bmatrix}$$

Portanto, para que as matrizes sejam iguais, x = 1326 e y = 1420.

Gabriel Gonçalves de Oliveira 2115550021 1ºADS