Mome: Gabriel Gonçalves de Oliveira RA: 2111550021 Professora: Dra. Marisa Atsuko Nitto - 1º ADS Lista de Exercícios - Matemática - Awla 14 It Dada a matriz A=[] x 5], determinar x, y es

Dada a matriz A=[] x 5], determinar x, y ez

para que A=A^t

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Y Z -3/3×3

 $\begin{bmatrix}
J & x & 5 \\
2 & 7 & -4 \end{bmatrix} = \begin{bmatrix}
J & 2 & Y \\
X & 7 & 7 \\
Y & Z & -3
\end{bmatrix} \begin{bmatrix}
X = 2 \\
X & 7 & 7 \\
Y = 5
\end{bmatrix}
\begin{bmatrix}
Z = -4 \\
Y = 5
\end{bmatrix}$

27 Dados as motrices A=[]]] e B[0 6], determinar: [57]xz [93]zxz

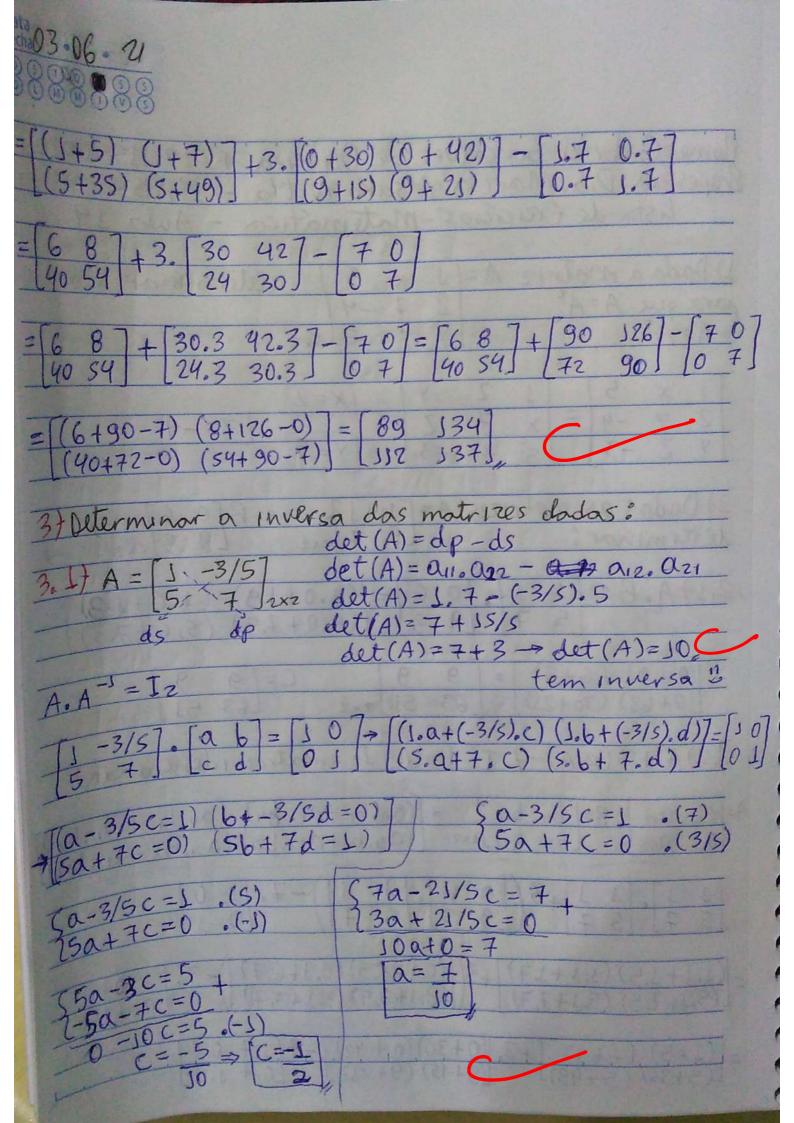
2.27 A2+3 (B.A)-7. Iz (onde Iz=matriz identidade)

A=[an an an] B=[bn bn] = [(an.bn+a12.621) (an.b12+a12.622)]
an an nx [b2 622] 2x2 (a21.61+a22.621) (a21.612+a12.622)]

 $\begin{bmatrix} J & J \end{bmatrix} \cdot \begin{bmatrix} J & J \end{bmatrix} + 3 \begin{pmatrix} \begin{bmatrix} 0 & 6 \\ 9 & 3 \end{bmatrix} \cdot \begin{bmatrix} J & J \\ 5 & 7 \end{bmatrix} - 7 \cdot \begin{bmatrix} J & 0 \\ 0 & J \end{bmatrix}$

= [(3.1+3.5)(3.1+3.7)] + 3([(0.1+6.5)(0.1+6.7)]) - 7.[30] = [(5.1+7.5)(5.1+7.7)] + 3([(9.1+3.5)(9.1+3.7)]) - 7.[30]

 $= \frac{\left(J+5 \right) \left(J+7 \right)}{\left(5+35 \right) \left(5+49 \right)} + 3. \left(0+30 \right) \left(0+42 \right) - 7 \left[J.7 \right] \cdot 0.7$ $= \left[\left(5+35 \right) \left(5+49 \right) \right] + \left[\left(9+15 \right) \left(9+23 \right) \right] - 7 \left[\left(0.7 \right) \right] \cdot 1.7$



56-3/5d=0.(5)	56-3/5d=0 .(7)
156+7d=1 .(-1)	(56+7d=1.0315)
556-3d=0 + 2-56-7d=-1	576-21/5=0 + (36+21/5=3/5
$\begin{array}{c} 0 - 10d = -1 \\ 10d = 1 \end{array}$	5.50 5.50 5.50 5.50
50/	5.10 50
$A^{-1} = \begin{bmatrix} 7/10 & 3/50 \\ -3/2 & 3/10 \end{bmatrix}_{2\times 2}$	
3.27 B=[] -2] $det(B) = dp - ds$ 3/4 7 $12x2$ $det(B) = 611, 622 - 612. 621 det(B) = 1.7 - (-2).3/4$	
B. B-1 = I2	det (B) = + +6/4
$\begin{bmatrix} J & -2 \\ 3/4 & 7 \end{bmatrix} \cdot \begin{bmatrix} a & b \\ c & d \end{bmatrix} = \begin{bmatrix} J & 0 \\ 0 & J \end{bmatrix}$	$= \frac{\left[(1.0 + (-2).c) (1.6 + (-2).d) \right] = [1.0]}{\left[(3/4.0 + 7.c) (3/4.6 + 7.d) \right] = [0.1]}$
$\begin{cases} a-2c=1 & .(3/4) \\ 3/4a+7c=0 & .(-1) \end{cases} \xrightarrow{-3c-14c=3} 4$	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\frac{1}{2} \frac{1}{3} \frac{1}{4} \frac{1}{14 \cdot 4 \cdot 2} \frac{1}{14 \cdot 4 \cdot 2}$	

