

Prope Dra. Marisa Atsuko Nitto - Matemática I Primeira Prova
Pra. Marisa Atsuko Nitto - Modernatica I
Primara rivora
1) (2.5) Escreva em porma de tabela as matrices dadas:
J. HA = (aij) 3x4 tal que aij = (-i²) - (-j²) - 3/5 (i.j)
A= an anz ans and; A= -3/5 9/5 31/5 63/5
1021 0.27 0.23 0.24   -23/5 -32/5 +15 30/5
19631 032 033 0339 338 9
$a_{11} = (-1^2) - (-1^2) - 3/5 (1.1) = (a_{12} = (-1^2) - (-2^2) - 3/5 (1.2) = -1 + 1 - 3/5.1 = -1 + 4 - 3/5.2 = +3 - 3/5.2/1 =$
0-3/5= -3/5 +3-6/5= 3/1-6/5=
15/5-6/5=+9/5
$0.13 = (-5)^{2} - (-3^{2}) - 3/5(1.3) = 0.44 = (-1^{2}) - (-4^{2}) - 3/5(1.4) = 0.44 = (-1^{2}) - (-4^{2}) - 3/5(1.4) = 0.44 =$
$\frac{3}{-1} + 9 - 3/5 \cdot 3 = +8 - 3/5 \cdot 3/1 = -1 + 16 - 3/5 \cdot 4 = +15 - 3/5 \cdot 4/1 = -18/1 - 9/5 = +49/5 - 9/5 = +15 - 12/5 = +15/1 - 12/5 = -12/5 = +15/1 - 12/5 = +15/1 - 12/5 = +15/1 - 12/5 = -15/1 - 12/5 = +15/1 - 12$
+35/5, +75/5-12/5=+63/5,
$\frac{1}{\alpha_{21}=(-2^2)-(-1^2)-3/5(2.1)} = \frac{1}{\alpha_{22}=(-2^2)-(-2^2)-3/5(2.7)} = \frac{1}{\alpha_{22}=(-2^2)-($
1,11-3/5,1=-5-2/5,2/1-   -4+1-2/20 1= 0-5/5,1/1=
-4+5 -3/5-6/5=-15/5-6/5=-21/5 -32/5#
$\frac{\alpha_{23}=(-2^2)-(-3^2)-3/5(2.3)=}{\alpha_{24}=(-2^2)-(-4^2)-3/5(2.4)=}$
$\frac{0.23 = (-2)^{2}}{-4+9-3/5.6} = +5-3/5.6/3 = -4+16-3/5.8 = +12-3/5.8/1 = -4+9-3/5.8 = +12-3/5.8/1 = +5/1-18/5 = +25/5-18/5 = +12/15-24/5 = +36/5 = $
+5/1-10/5 +7/5 +36/5 -
181 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

031=(-32)-(-12)-3/5(3.1)=	032=(-32)-(-22)-3/5(3.2)=	
-9+1-3/5.3=-8-3/5.3/1=	-9+4-3/5.6=-5-3/5.6/1=	
-8/1-9/5=-40/5-9/5=	-5/1-18/5 = -25/5-18/5=	
-49/5,,	-43/5,	
1948 1, 2(8) 4 3, 2 (8) 4;		
033 = (-32)-(-32)-3/5(3.3)=	034=(-32)-(-42)-3/5(3.4)=	
-9+9-3/5 + 9=0-3/5 + 9=	-9+16-3/5.12=+7-3/5.12/1=	
-3/5.9/1=-27/5,	+7/1-36/5=+35/5-36/5=	
6 tal quet	3 A V X NORM-1/5, 12.2 12	
$J.2+A=(aij)_{3\times3}$ tal que aij $F(x)=2.(-x^2)+5.$	= 2. F(i) + 3. F(J), para	
$x(x) = 2.(-x^2) + 5.$	-7x+3/47+3 2a+76/2x	
A= Q11 Q12 Q13 , A= -	15 -3 -33	
az azz azz	3 -15 - 75	
Q31 Q32 Q33 3x3	17 -35 -65 J3x3	
$(1) = 2 \cdot (-1^2) + 5 = 2 \cdot (-1) + 5 = -2 + 5 = +3$		
$(2) = 2.(-2^2) + S = 2.(-4) + S = -8 + S = -3$		
$f(3) = 2 \cdot (-3^2) + 5 = 2 \cdot (-9) + 5 = -18 + 5 = -13$		
$a_{11} = 2. \kappa(1) + 3. \kappa(7) = (a_{12} = 2. \kappa(1) + 3. \kappa(2) =$		
$\frac{2 \cdot F(1) + 3 \cdot F(1) = 2 \cdot 3 + 3 \cdot 3 = 2 \cdot 3 + 3 \cdot (-3) = 6 - 9 = -3}{6 + 9 = +15}$		
0+3-11/1		
Q13=2.p(1)+3.p(3)= 0	$21 = 20 \times (2) + 30 \times (1) =$	
2.3 + 3, (-13) = 6 - 39 =	2. (-3)+3.3=-6+9=+3,	
-33,	13/4×13/=12 ,[12/3]	
(2) 11 8-24 12 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
022=20x(2)+3.x(2)=	a23= 2.x(2)+3.x(3)=	
2. (-3) +3. (-3) = -6+(-9)=	2.(-3)+3.(-13)=-6+(-39)	
-6-9=-15,	-6-39 = -45,	

data 29.04. U 866888888 031= 2. F(3)+3. F(1)= Q32=2.6(3)+3.6(2)= を 2. (-J3)+3.3= 2. (-13) + 30 (-3)= -26+9=-J7a -26-9=-35, Q33=7.6(3)+3.6(3)= 2.(-13)+3.(-13)= -26-39=-65, 2+ (2.5) Determinar x, y, a e b tal ques 3/2x+sy 3a-567 = 24+2  $\frac{3/2 \times + 5y}{-7 \times + 3/4 y + 3}$   $\frac{3a-5b}{2}$   $\frac{2}{2}$   $\frac{2y+2}{3}$   $\frac{0}{3a-5}$   $\frac{1}{3}$   $\frac{1}{3}$  ( )12x+SY = 2Y+2 \$ 522/6 x + 66/3/= 44/3 -7x+3/4y+3=1/3x-5 1-22/6x +3/8 y = -8/2 522/6x+224=44/3+  $51/2 \times + 5y - 2y = +2$ 1-7x+3/4y-1/3x=-5-3 (-22/6x+3/8/=-4 0+224+34=44-4= 1 8 3 1 51/2x + 3y = +27-7/1x-1/3x+3/4y=-8 1764+34 = 44-12 z J79y = 32 => Y= 32.8 = 8>3 3.179 (J/2x+3y=+2 1-22/3×+3/44=-8 Y= 256) eliminando o X: 537 (1/2×+3Y=+2, (22/3) Univando o y: 7-22/3x +3/4 y = -8 . (1/2) 51/2x+3y=+2.314 53/2x(243) + 3y(22/3)=2.(22/3) (-22/3x+3/44=-8 0 (-3) 7-22/3x(1/2)+3/4y(1/2)=-8.(1/2)

S3/8x+9/4y=6/4	776×+3x = 3+48=		
(+66/3x + (-9/4y) = +24	( 8 2		
	179x = 51 = x = 51.8 8 × 2 179.2		
53/8x+9/4y=3/2,	8 × Z 179.2		
$\frac{53/8x + 9/4y = 3/2}{22x - 9/4y = 24} +$	2/3 4 0 343		
22×+3× 10=3 +74=	$x = 408^{2} \Rightarrow x = 204$ $358:2$ $179$		
J 8 2 1	358.2 179		
t All			
53a-56=0   el	ininando o bi		
[2a+7b=1	Try manage of		
	a-56=0 . 7		
	a+76=1 .5		
53a-56=0 .(-2) 52s	a-35b=0.		
	a+0=5		
5-6a+10b=0+	x = 204 $y = 256$		
	5 179 537		
b= 3	$31)_{\mu}$ $a=5$ $b=3$		
31			
31 31			
21 (20) Noto	zet tolone en toul		
3+ (2.5) Determinar X, Y, z et tal que se tenha			
(v2 2x v1 - (v x 31			
$\begin{bmatrix} x^2 & 2x & y \\ 4 & 5 & t^2 \\ 2x3 & \begin{bmatrix} 2 & 5t & t \\ 2x3 \end{bmatrix}$			
L7 > (-)2x3 L7 J ()2x3			
-2 - V 1 2 V - V 1 V - 2	14=Z   5=St 1 t2=t		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7-6 5=5 (= (		
$X = \frac{1}{2} \sqrt{\lambda}$	$7 = \frac{7}{2}$ $5 = 5t$ $t^2 = t$ $t = \frac{1}{2}$ $t = \frac{1}{2}$ $t = \frac{1}{2}$		
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
an 1 ans ans	(a21) t=1, t=±1		
	arr 1 a 23 1		

47 (2.5) Dada a matriz A3x3, determinor:
3/s 2 4/5 7 5 1/2 - 7 2/3 9 0 3x3
40)+0 valor de ass-[ass.as-(as)2]= (ass+ass)
$ \frac{3 - \sqrt{3} \cdot 4 - (4)^{2}}{5 \cdot 5 \cdot 5 \cdot 5 \cdot 5} = \frac{3 - \sqrt{3} - \sqrt{6}}{3 - \sqrt{5}} = \frac{5, 175}{5} $ $ \frac{4 + 3}{5 \cdot 5} = \frac{5}{5 \cdot 5} = \frac{7}{5 \cdot 5} $ $ \frac{7 + 7}{5 \cdot 5} = \frac{7}{5 \cdot 5} $ $ \frac{7 + 7}{5 \cdot 5} = \frac{7}{5 \cdot 5} $ $ \frac{7 + 7}{5 \cdot 5} = \frac{7}{5 \cdot 5} $ $ \frac{7 + 7}{5 \cdot 5} = \frac{7}{5 \cdot 5} $
$\frac{3}{5}$ - $\begin{bmatrix} -4 \\ 25 \end{bmatrix}$ = $\frac{3.1}{25.7}$ - $\frac{(-4).5}{5}$ = $\frac{3}{175}$ - $\frac{(-20)}{5}$ = $\frac{-3}{175}$
J05+20 = J25:25 = 5 J75 J75:25 7
4.270 valor de a13+a22.a23-(a31)2=
$\frac{4+1\cdot(-7)-(2)^2-4+(-7)-4=4-7-4=}{5+2\cdot 5} = \frac{4+1\cdot(-7)-4=4-7-4=}{5+2\cdot 5} = \frac{4+1\cdot(-7)-4=4-7-4=4=5}{5+2\cdot 5} = \frac{4+1\cdot(-7)-4=4-7-4=5}{5+2\cdot 5} = \frac{4+1\cdot(-7)-4=4-7-4=4-7-4=5}{5+2\cdot 5} = \frac{4+1\cdot(-7)-4=4-7-4=4-7-4=4-7-4=4-7-4=5}{5+2\cdot 5} = \frac{4+1\cdot(-7)-4=4-7-4=4-7-4=4-7-4=4-7-4=5}{5+2\cdot 5} = 4+1\cdot(-7)-4=4-7-4-4=4-7-4-7-$
+72-355-40=+72-355=[-283]
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