data
fecha 20.04.71
(0) (1) (2)
@ \$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

1) 2.5 2) 2.5 3) 1.5 4) 2.5

NOTA = 9.0

60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4) 2.5
Mome: Gabriel Gonzalies	de Oliveira lo Nitto - Maternatica I Prova
Proce Dra. Marisa Atsuk	o Nitto - Maternatica I
Primeira	Prova
1460016	1 1-101-20 100 201700
1) (2.5) Escreva em pormo dadas:	de Tarolla is minimi as
J. HA = (air) 3xy tal que a	lij=(-i²)-(-j²)-3/5 (i.j)
- Loud TX Charact	(215)
A= an anz ans and; A=	[-3/5 9/5 31/5 63/5] -21/5 -12/5 7/5 36/5
021 022 023 024	-21/5 -12/5 7/5 36/5 -49/5 -43/5 -27/5 -1/5 3x4
- 1931 932 933 934 3X4	[-130 1272 2173 212 328]
an = (-12) - (-12) - 3/5 (1.1)=	(a12= (-12)-(-22)-3/5 (102)=
-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=
L-2-11 laser	15/5-6/5=+9/5
00-(3-(-32)-3/5(1.3)=	(0,4=(-12)-(-42)-3/5(1,4)=
-1+9-3/5.3=+8-3/5.3/1=	-1+16-3/5, 4=+15-3/5, 4/1=
18/1-9/5=+40/5-9/5=	+15-12/5=+15/1-12/5=
+33/5,	+ 75/5-12/5= + 63/5
$Q_{21} = (-2^2) - (-1^2) - 3/5(2.1) =$	$Q_{22}=(-2^2)-(-2^2)-3/5(2.7)=$
$\frac{021 = (-2)^{2}(5)^{2}}{-4+5-315\cdot 2} = -3-315\cdot 215$	= -4+4-3/5.4=0-3/5.4/1=
-3/1-6/5=-15/5-6/5=-21/	15 -12/5#
023=(-22)-(-32)-3/5(2.3)=	a24=(-22)-(-42)-3/5(2.4)=
	+12/1-24/5=+60/5-24/5=
-4+5-175, +7/5, +5/1-18/5=+25/5-18/5= +7/5,	+36/5,*
1134	+05-1-14 345-46
38:00	1081 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	@U@@J\\	
Q31 = (-32)-(-12)-3/5(3.1)=	032=(-32)-(-22)-3/5(3.2)=	
-9+1-3/5.3=-8-3/5.3/1=		
-8/1-9/5=-40/5-9/5=	-S/J-18/5 = -25/5-18/5=	
-49/5,,	-43/5, C	
	18957, E(8) 43, E(3)=	
Q33 = (-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=	
	3 A V X 30000-1/5, 12.0 15	
$J.2+A=(aij)_{3\times 3}$ tal que aij $\mu(x)=2.(-x^2)+5.$	= 2. F(i) + 3. F(T), para	
$\kappa(x) = 2.(-x^2) + 5.$	- 1x+3/44/3 2a+76/2x	
A= an an an A=		
Q21 Q22 Q23 Q31 Q32 Q33 J3X3	3 -15 -45	
Q31 Q32 Q33 3x3	J7 -35 -65 J3x3	
	2 + 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	
x(1)=2.(-12)+8=2.(-1)+8	= -2+5=+3,	
$\zeta(2) = 2.(-2^2) + S = 2.(-4) + S = -8 + S = -3$ $\zeta(3) = 2.(-3^2) + S = 2.(-9) + S = -18 + S = -13$		
$f(3) = 2.(-3^2) + 5 = 2.(-9) + 5$	=-18+3=-35,,	
0 (1) 2 (10-2-(1)13-((2)=	
$a_{11} = 2. \epsilon(1) + 3. \epsilon(5) =$	$ a_{12}=2.\varepsilon(1)+3.\varepsilon(2)=$ 2.3+3.(-3)=6-9=-3.	
2.F(1)+3.F(1)=2.3+3.3=	2, 57 50 6 7/2 0 5	
6+9=+15,	V I I I I I I I I I I I I I I I I I I I	
a 2 - 2 - (1) +2 × (2) - 10	121 = 20x(2)+3.x(1)=	
	2. (-3)+3.3=-6+9=+3,	
2.3 + 3. (-13) = 6 - 39 =	14/2×13/4-12-110/31	
	1 + + (1/2) & = + 1 (1/2) - + - 1 (1/2)	
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,	
The state of the s		

data 29 . 04 · U 031= 2. c(3)+3. c(1)= a32=2. (3)+3. (2)= を 2. (-J3)+3.3= 2. (-13) + 30 (-3)= -26+9=-J7, -26-9=-35, Q33= 2. £(3) + 3. £(3)= 2.(-13)+3.(-13)= -26-39=-65, 2+ (2.5) Determinar x, y, a e b tal ques 5/2x+sy 3a-567 = 2y+2 [-7x+3/4y+3 2a+76] 2xz [1/3x-5 5 1/2x+SY = 2Y+2 522/6x+66/34=44/3 -7x+3/4y+3=1/3x-5 $\frac{-22}{6} \times \frac{+3}{8} = -\frac{8}{2}$ $51/2 \times + 5y - 2y = +2$) 22/6x+22y=44/3 (-7x+3/4y-1/3x=-5-3 (-22/6x+3/BY=-4 0+224+34=44=4= 51/2x+3y=+2 7-7/1x-1/3x+3/4y=-8 1764+34 = 44-12 z (J/2x+3y=+2 J794= 32=> Y= 32-8 = 1-22/3×+3/44=-8 3.179 eliminando ox: $(1/2 \times +3 Y = +2, (22/3)$ Univando o Y: 1-22/3x+3/4y=-8 .(1/2) \$1/2x+3x=+2 .314 53/2x(243) + 3y(243)=2.(22/3) (-22/3x+3/44=-8 0 (-3) 7-22/3x(1/2)+3/4y(1/2)=-8.(1/2) \$ 1/2x(3/4)+34(3/4)=2.(3/4) (-22/3x (-3) +3/4y (-3) = -8 (-3)

53/8x+9/4y=6/4	376×+3x = 3+48=
(+66/3x+(-9/4y)=+24	8 2 6
	179x = 51 = x = 51.8
53/8x+9/44=3/2+	8 × Z 179.2
(22x-9/4y=24)	2/3 S 0 3x3
22×+3×+0=3+24=/	x= 408° = 204
$\frac{22X + 3x + 0 = 3 + 24 = 1}{3}$	358:2 179
CINCIPETA CONTRACTOR	
∫3a-5b=0 eli	ninando o bí
(2a+7b=1)	8=13/4/=1=8
	1-56=0 .7
eliminando o a: (20	+76=1 .5
(2 (1 0 /2) (
	2-356=0
	10=5
5-6a+10b=01	+0=5 $x=204$ $y=256$
	5 1 179 537
	31
b= 3	a=5 b=3
31	31 31
3) (2.5) Determinar X, Y,	zet tal que se tenha
	27
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	X 3
X-x=0 colular x, exz	1dem = t=t
$x^2 = x$ $2x = x$ $y = 3$	4=Z 5=5t t2=t
$X = \pm \sqrt{X}$ $X = X$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
an 1 a12 1 a13	azi) t=1 t=±1
412	
X	ans and

4) (2.5) Dada a matriz A3+3, determinar:
3/s 2 4/57 5 1/2 -7 2/3 9 0 3x3
40)+ 0 valor de ass-[ass.as-(as)2]= (ass+ass)
$ \begin{array}{c cccccccccccccccccccccccccccccccccc$
$\frac{3}{5} - \frac{-47}{25} = \frac{3.1 - (-4).5}{25.7} = \frac{2}{5} - \frac{(-20)}{25} = \frac{2}{5}$ $\frac{7}{5} = \frac{7}{5} = $
Jos+20 = J25:25 = 5 J75 J75:25 7
4.270 valor de a13+a22.a23-(a31)2=
$\frac{4+1\cdot(-7)-(2)^2-4+(-7)-4=4-7-4=}{5\cdot 2\cdot 5\cdot 2\cdot 3}$
+72-315-40=+72-355=-283 $2,5,9 2$ 30 30 $3,5,9 3$ $3,5,3 3$
Gabriel Gonfolves de Oliveira