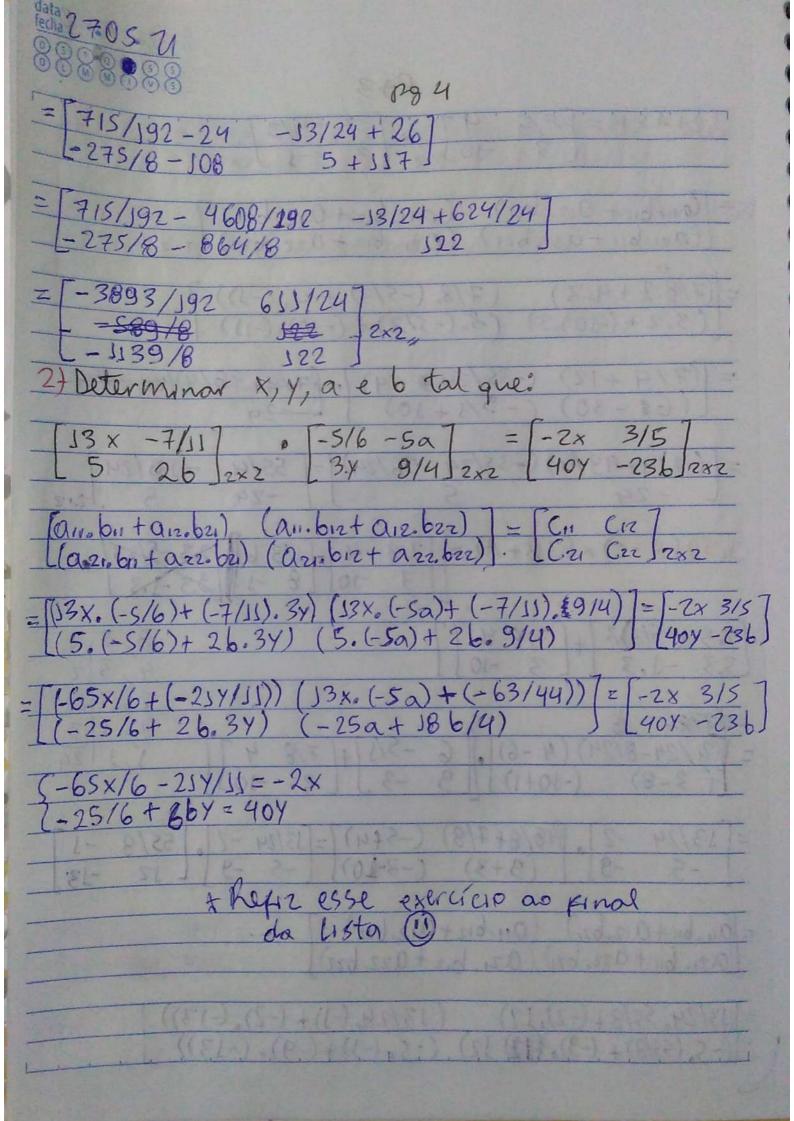
Mome: Gabriel Gonçalves de Oliveira RA: 2111550021 Professora Dra. Marisa Atsuko Nitto - 1-ADS Lista de Exercícios - Matemática 1 - Aula 13 1+Dadas as matrizes A= [7/8 4], B= 2-5/3]
0 (-51/2 67 3-J0]2x2 1.01+Bt-3/13. (A+C) ⇒B=[2-5/3], Bt[2 3]  $= \begin{bmatrix} 2 & 3 \\ -5/3 & -1 \end{bmatrix} \begin{bmatrix} 7/8 & 4 \\ 3 & -1 \end{bmatrix} + \begin{bmatrix} 1/3 & 6 \\ 8 & -1 \end{bmatrix} \begin{bmatrix} 7/8 + 1/3 & 4 + 6 \\ 3 + 8 & -10 - 1 \end{bmatrix}$  $=\begin{bmatrix} 2 & 3 \end{bmatrix} - J \cdot \begin{bmatrix} (23/24 + 8/24) & (4+6) \\ -9/3 & -3 \end{bmatrix} \cdot \begin{bmatrix} (3+8) & (-30+(-3)) \end{bmatrix}$  $= \begin{bmatrix} 2 & 3 \end{bmatrix} \cdot \begin{bmatrix} (29/24.(-1/13)) & (30.(-1/13)) \end{bmatrix} = \begin{bmatrix} 2 & 3 \\ -5/3 & -1 \end{bmatrix} \cdot \begin{bmatrix} -29/312 - 10/3 \\ -11/13 & 11/13 \end{bmatrix}$ = [b1, b12]. [a1, a12] = [(611.a11 + b12.a21) (611.a12 + b12.a22) [b2, b22] [a21 a22] [(b21, a11 + b22.a21) (621.a12 + b22.a22)  $= \begin{bmatrix} 2.(-19/312) + 3.(-11/13) & \{2.(-10/13) + 3.11/13 \\ -5/3.(-29/312) + (-1).(-11/13) & -5/3.(-10/13) + (-1).11/13 \end{bmatrix}$  $= \left[ \left( -58 \right) \frac{312}{624 + 33/33} \right] = \left[ -58 \right] \frac{312}{624 + 33/33} \right] = \left[ -58 \right] \frac{312}{624 + 33/33}$   $\left[ \left( 345 \right) \frac{936}{936 + 33/33} \right] + \left( +50/39 + -33/33 \right) \right] = \left[ -58 \right] \frac{312}{645/93}$ = (29/156 - 33/13) (33/13) = (29/156 - 33/13) £ 1 (145/936 - 11/13) (50/39 - 33/39) = (145/936 - 11/13) £ 1

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000000000000000000000000000000000000000
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1C/ 121 - 1 00: 1=
156, 13 2 4 936, 13 2
78, 13 2 468, 13 2 4
13 10 10
13,53 13 5, 1 156 39, 13 13 72
13,13 13)
1,1 936
7= -367/186 1
-647/936 57/39 12x2
- Tank ( 22/10) ( )
= [(29/156 - 33/13)(5)] = [(29/156 - 396/156)(1)] $= [(195/936 - 11/13)(57/39)] = [(195/936 - 792/936)(17/39)]$
[[195/936-13/13] [3+/39]] [[345/936-792/936] (17/39)]
Pg 2
&,

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data 27.05.21 8888888

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P95
3) A solução de sistema s(a-2) x + by = s e
5/1 Solução de SISTERIOR S(a+2) x + 2 by = 5
x=-7 e $y=5$ , Determine $(a+2)x+2by=5$
05 valores de la e b.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$(a+2) \cdot (-7) + 26 \cdot 5 = 5$ $  b = 32  $
5 /
S-7a+34+5b=1
2-7a-14+10b=5 S-7a+5b=-13 .(-2)
2-7a+10b=+19
(-70 +56=1-14)
S-7a +56=1-14 \\ 2-7a+50b=5+14 \\ 514a-50b=26 +
2-7a+30b=19
5-7a+56=-13, $(-1)$ $7a+0=451-7a+506=+19$
(7.51-12)
S7a-56=13 + / - 7h
(-7a+106=19
0+56=32
(0,6) = (45,32)
7 5/
2) Determinar x, y, a e 6 tal que:
3 3 3 3 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
[13 -7/117 [5/6x -50] = [-2 3/5]
$\begin{bmatrix} J3 - 7/Jj \end{bmatrix} \cdot \begin{bmatrix} 5/6 \times -50 \end{bmatrix} = \begin{bmatrix} -2 & 3/5 \\ 40 - 23 \end{bmatrix}_{2\times 2}$
- C- 2 1202 ( )
To b 10 be) (0 1 600 (00) 7 5 600 (00) 7
[au.bi+az.bzi) (au.biz+az.bzz) = [Ci Czz] = [Cu Czz] xz
[1021.611+022, 021) (021.612+022, 622) [C21 [22] 2x2
= 133.15/6x)+(-7/15).34) (13.(-5a)+(-7/15).9/96) = -2 3/5
= $[(3.(5/6x)+(-7/15).3y)(13.(-5a)+(-7/15).9/46)]=[-2.3/5]$ $[(5.(5/6x)+2.3y)\cdot(5.(-5a)+(2.(9/46)))]=[-2.3/5]$

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```
= [(65x/6 + (-2)y/J))(-65a + (-63b/44))] = [-2 3/5]
= (25x/6 + 6y) (-25a + 18b/4)) = [40 - 23
= 65x/6 m独-25Y/JJ=-2 -23/6
  25×/6+64=40
 65x/6.(-25/6)-214/15.(-25/6)=-2.(-25/6)
  25×16. (65/6) + 64. (65/8) = 40. (65/6)
  -1625x + 175Y/22 = 25/3
                                 S65x/6-254/11=-2,6
  +1625x + 65y = 1300/3
                                 (25x/6+6Y=40
    0+175Y+ 1430Y = 1325
                          565×16.(6)-234/11.(6)=-2.6
      1605 Y = 1325
                           [25×/6.(21)+214/11.(21)
        22
                                              = 40.21
     Y= 1325:5.22
        J605:5,3
                        565x -71/11.2 = -12
     Y= 265.27
                        125x.(7)/2-74/15(2)=840+
        321.3
    Y= 58304
                       1605 x -0 = 840 + (-132)
        963
                       1605x = 708 → x= 708.2
                                           1605
                                      X= 14167
                                          1605
 5-65 a + (-636/44) = 3/5 (-25)
  -25a+186/4=-23 .(65)
  (-65a.(-25)+1-636/44.(-25) = 3/5.(-25)
 1-25a.(65) + 186/4.(65) = -23.(65)
```

data 728 -05 - 71 P97 1+1625a + 15756/44 = -75/5 -1625a+ 11706/4= -1495 1625a + 15756/44 = -15 -1625a+5856/2 =- 1495 0+15756+5856=-1510 5-65a+(-636/44)=3/5 44 7-25 a+ 186/4=-33 15756 + 128706 = -1510 44 144456=-1510 (-65 a 4-636/44=3/5 (18/4) 49 2 1 2-25a+186/4=-23 (63/44) 6=-1510.44 5-65 a. (18/4) - 636/44. (18/4) = 3/5-18/4 19445 6= - 66440 \$5 (-Isa. (18/4) + 18' 4 94 (-25a. (63/44) + 18 6/4. (63/44) = -23. (63/44) 19445 : 5 6= 13288 2889 (-1170a/4-11346/11=54/20 (-1575a/44+15346/1)=-1449/44 44,20 2)4 ~##D 27, 10 -1575a - 1170a = -1449 +54 -1575 a-12870n= -7245+594 1220 04 220 - 144450= 7-839 -6651 220 220 4A cada dia 14445a = 6651 novos aprendirados ". Obrigodo 44 % 220 a= 6651.44 por tudo 14445 proxessora a= 292644:9 3 a= 32516 14445 :9 1605