| Nome: Galage Consolver to Olivera RA: 251550021  |
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| Tion a convict Golfanos de Carsin  |
| Professora: Dra. Marisa Atsuko Nitto - 1º ADS<br>Lista de Exercícios - Matemática I - Semana 7   |
| Usta de Exercícios - Matemática I - Serrana 7  |
| 17 Determinar a solução do sistema de equações:  |
| a) (-3x-Y=4 = 9 (-18x-6y=24)   |
| a) $5-3x-y=4$ $95-18x-6y=24+$ $16x-14y=30$   |
| 0-484=54   |
|  |
| 1-484= 24 x(-1) = 1=-3   |
| $\frac{-484 = 54 \times (-1)}{5 - 3x - 4 = 4} \times (6)  484 = -54$ $\frac{-3x - 4 = 4}{6x - 144 = 10} \times (3)$  |
| $(6x - 14y = 10 \times (3))$   |
| 1 2/ 110 45 1111 61  |
| eliminary ( 5-42x-144=56+  |
| $\frac{1}{10000000000000000000000000000000000$   |
| $\begin{cases} -3x - y = 4 & x(14) \\ 6x - 14y = 50 & x(-1) \end{cases} - 48x + 0 = 46$  |
| -48v=46 (-1) 24-46°2 x x=-23   |
| Solution: $x = -23$ , $y = -9$ $48x = -46$ $(-1)$ $7x = -46$ : $2 \Rightarrow x = -23$ .   |
| Solução: x=-23, y=-9 48x=-46 48:2 24,  |
| The second of th |
| 6) § 7 x - 3 y = -5   eliminar o y:  |
| 2x - 4y = 9  |
| (7x-3y=-5x(-4))  |
| $\{7x-3y=-5 \times (-2)\}$ $\{2x-4y=9 \times (3)\}$  |
| $\begin{cases} 7x - 3y = -5 & x(-2) \\ 2x - 4y = 9 & x(7) \end{cases} \begin{cases} 2x - 4y = 9 & x(3) \\ 2x - 4y = 9 & x(7) \end{cases}$  |
| $\{-28 \times + 12 \text{ y} = 20 \}$  |
| S - 14x + 6y = 30 + 26x - 12y = 27   |
| (14x-284=63 -22x+0=47x(-1)   |
| 0-22 Y= 73 x (-3) 22 X = -47   |
| 227=-73 X = -47 Solução: X=-47   |
| 1, 1, -1, -1, -1, -1, -1, -1, -1, -1, -1   |
| 72 y = -73   |

| c) 5-13x+2 y=-1  | elin | mor o y:   |  |  |
|--|------|--|--|--|
| 711x-5y= JO  | 235  |  |  |  |
| eliminar ox:   | 5-1  | S-J3x+2Y=-1 x5   |  |  |
| 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1   | 7 11 | x-sy= 10 x2  |  |  |
| 5-13x+24=-3 x11  |      | THE SERVICE OF THE SE |  |  |
| 1 11x-54=10 x13  | 5-6  | Sx + 50 4 = - 5 +  |  |  |
| 21-18 21-18 - 12 x 12  | 1729 | y = 10y = 20   |  |  |
| 5-143×+224=-15+  | -4   | $3x + 0 = 15 \times (-1)$  |  |  |
| 7+143x-65y=330   |      | 3x=-15   |  |  |
| 0 - 43 V = 119 x(-1)   |      | =-15-= (V248-1/10-1/18-1/10)   |  |  |
| 434=-119   |      | 43, Solução: X = -15   |  |  |
| Y= -119  |      | 43.  |  |  |
| 43,  |      | Y=-119   |  |  |
|  |      | 434  |  |  |
|  |      |  |  |  |
| d) 5-1/3 x + 24 = 3  |      | eliminar o Y:  |  |  |
| (5x-5y=1)  | THE  |  |  |  |
|  |      | 5-1/3×+24=3 x5   |  |  |
| (-1/3×+24=3 ×5   |      | 25x-5Y=1 x2  |  |  |
| [5x-5Y=1 x3/3  |      | 832642630 108  |  |  |
|  |      | S(5/1). (-1/3x)+24.5=3.5   |  |  |
| S(5/5)0(-3/3x)+24.5=3.5  | 183  | (SX.2-5Y.2=1.2   |  |  |
| [Sx. (3/3) =- Sy. (3/3) = 1.   | 1/3) | 126 13612  |  |  |
|  |      | 5-5/3x+304=15  |  |  |
| (-5/3×+50Y=15)   |      | LJOX - JOY = 2   |  |  |
| 5-5/3×+504=15<br>15/3×-5/34=1/3  |      |  |  |  |
|  |      | $-5 \times + 10 \times + 0 = 15 + 2$   |  |  |
| 0+30Y-5Y=15+1  |      | $\frac{-5x+10x+0=15+2}{3}$   |  |  |
| 1 3 1 3  |      | -5x+30x = 17   |  |  |
| +304-54=45+1   |      | 3  |  |  |
| 3 3  |      | +25X=17  |  |  |
| 001-111  |      | 3  |  |  |
| $\frac{254 = 46}{25}$  |      | X=17.3 = X=51  |  |  |
| 25   |      | 25 25  |  |  |
| The state of the s |      | C7   |  |  |

| Solution: x=51 e y=46                         |   |  |  |  |  |
|---|---|--|--|--|--|
| 250   |   |  |  |  |  |
|   |   |  |  |  |  |
| e) § 3x + 2/sy = -1                           | eliminande o Y:                               |  |  |  |  |
| (J)x-7Y=5 -xx                                 | 81.01=(81.48) +81.x14                         |  |  |  |  |
| eliminando ox:                                | 53x + 2/5 Y= -1 x7                            |  |  |  |  |
| -13/3+2/34=2/3481                             | (1) x -7y = 5 x 2/5                           |  |  |  |  |
| 53x + 2/5y = -1 x11                           | 12/2x - 28/3/= 120                            |  |  |  |  |
| 7 JJX - 7 Y= 5 × (-3)                         | S3x.7+2/sy.7=-1.7<br>()1x.2/s+(-7y.2/s)=5.2/s |  |  |  |  |
| 13 - X + 0 = 2/8+20 - E                       | 7 JJX. 2/5+ (-74. 2/5) = 5. 2/5               |  |  |  |  |
| 53x.51+2/5y.51=-5.51                          | (19/2×=18/81=x2/81)                           |  |  |  |  |
| (+) 1×.(-3) - 7 y.(-3) = 5.(-3)               | S21x+14/5y=-7                                 |  |  |  |  |
|   | 722/5x-14/54=10/5                             |  |  |  |  |
| §33×+22/5Y=-11+0=101                          |   |  |  |  |  |
| (-33×+214 = -18                               | 521x+14/sy=-7                                 |  |  |  |  |
| 1X=-62 = 20-=X                                | 521x+14/sy=-7<br>122/sx-14/sy=2               |  |  |  |  |
| 0+224+214=-11-15                              | x (4) x 28 / = YOL-                           |  |  |  |  |
| 52 5 9306                                     | 25x + 22x + 0 = -7+2                          |  |  |  |  |
| 22Y+105Y=-26                                  | J 58281-24 = 181-2406                         |  |  |  |  |
| 528 V 9 L8-= X 60 M                           | 105x+22x = -S                                 |  |  |  |  |
| 127Y=-26                                      | S 888 = EY                                    |  |  |  |  |
| 5 32  | 127x=-5 81                                    |  |  |  |  |
| V=-26.5⇒ Y=-130                               | 5 -3  |  |  |  |  |
| 127 127                                       | $x = -5.5 \Rightarrow x = -25$                |  |  |  |  |
| ex 4-x12                                      | 1127-18-1127                                  |  |  |  |  |
|   |   |  |  |  |  |
| Solução: x = -25 e Y=                         | -130 1-= NI+N-181+XN-X                        |  |  |  |  |
| 00-127 - XDE 127 11=X8+XP=X8+XP=              |   |  |  |  |  |
| (1-) 1 20 - EVET - 0                          |   |  |  |  |  |
| e) (-13x+2/=2 / eliminar o y:                 |   |  |  |  |  |
| $\frac{1}{3}\frac{1}{2}x - \frac{1}{2}y = 10$ |   |  |  |  |  |
| 5-13x+27=2 x3/3                               |   |  |  |  |  |
| eliminar 8 X: (3/2x-3/3/=10 x2                |   |  |  |  |  |

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| (3)(1)(1)(3)   |   |
|--|---|
| 7-13x+2y=2 x+2   | (-13x. 5/3+24. 5/3=2. 1/3               |
| - 149 x x  | 13/2x.2-3/34.2=30.2                     |
| $-43 y = 10 \times 13$   | CICACC                                  |
| 5-13V 1/2011   | 5-13/3x+2/3y=2/3                        |
| 5-13x.1/2+24.1/2=2.1/2   | 72/2 2/21 - 20                          |
| 13/2×033+ (4/34.13)=10.13  | 12/2x-3/3y=20                           |
| (-13/2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                       |   |
| 3-12X+2/2Y=2/2   | 5-13/3+2/34=2/3+                        |
| $\frac{S-13/2 \times + 2/2  \text{y} = 2/2}{23/2 \times - 13/3  \text{y} = 130}$ | (x-2/3/=20                              |
|  | S - S - S - S - S - S - S - S - S - S - |
| S-13/2x+ Y=1   | -13 + x + 0 = 2/3+20                    |
| (13/2x-13/34=130)  | 3 1111-3                                |
| 17×+ 11/2×==+==================================                                  | -13+3x=2+60                             |
| 0+ Y-13Y=1+130   | 3 3                                     |
| 1 3  | -JOX = 62 . (-1)                        |
| 34-134=137   | 3 3                                     |
| 3 S = 45/11 - X5/33  |   |
| -104 = 137 *(-1)   | $50x = -62.2 \Rightarrow x = -31$       |
| 3 010 = 6 000  | JO:2 5,                                 |
| JOY=-131=> Y=-131.3  | 22 X + X 20 X + X 22                    |
| 3 10 5   | olução: x=-31 e V=-393                  |
| Y=-393   | 5 30 100                                |
| 10 /   | Mal See 3                               |
| 30 // 613  | V= 9/5 V=12%                            |
| -10-9x-V=-18x-7V-1 1   | 259x+Y=-1 x(-4)                         |
| 9)5-9x-y=-18x-2y-1   | 111 11 11 11                            |
| (-1/2-1/4 0/2 //13)  | $(9x-y=3) \times 9$                     |
| CO. 110, VL2V1   | 5-36×4-44=+4                            |
| 5-9x+18x-Y+2Y=-1   |   |
| 7-4x+8x-4y+3y=11   | (36x - 9y = -99)                        |
|  | $0 - 13y = -95 \times (-1)$             |
|  | 134=95                                  |
| [+4x-Y=1]  | Y= 950 X                                |
| 275 X 3 2 X 3 X 3 X 3 X 3 X 3 X 3 X 3 X 3 X                                      | X81-5 134                               |
| eliminando o x   | XSY ) 1 3 X C LOW TO                    |

| eliminando o Y:                                    | 13X=10   | 28   | O SCHAMMANTO              |
|--|--|--|---------------------------|
|  | X=10   |  | 61 -                      |
| 59x+Y=-1 x1  | 13,  |  | Solução:                  |
| 24x - y = 13 x1                                    |  | 5×   | 00 = V = X P              |
|  | Voltando   | ore Xo   | x=10 e Y=-103             |
| 59x+4=-1+/   | 8 Y= 3   | 14.80  | (H-VC-13)                 |
| 74X-Y=13   | 5-36x-4  | Y=14   | (5/10, -) + (5'X)         |
| $\frac{(4x - y = )5}{13x + 0 = 10}$                | (36x-9)  |  |                           |
| : x=-68 Y=-332                                     | 00-13Y   | = 103  | ×(-J) -×0-                |
| Solução:   | J34=   | -103   | 10x - 12x = 20x           |
|  |  |  | 08 = V21 - V21 0          |
| X=-103 e Y=103                                     |  | 13/4   | × 288 = 18-               |
| 13 13  |  |  | 285- = AE                 |
|  | 1  |  |                           |
| h) (-5x + 8y = 3<br>25x - y = 11                   | eliminar o   | y:   | Solução: X=13 e Y=2.      |
|  | C 0 00   |  |                           |
| eliminor 0 x:                                      | The state of the s |  | Cabril Confol             |
|  | (Sx - 4 = 1)   | x8   | 0.17                      |
| $\frac{S-SX+8Y=3}{SX-Y=JJ}$                        | 0 0 0 0 0  | /  | → X=91°7                  |
| (Sx-Y=J]   | S-5x+8Y=3<br>(40x-8Y=88  | +/   | 35%7                      |
|  |  |  | X= 13                     |
| Y=14   | +35×+0=91  |  | 5,4                       |
| 7<br>V-0   | 35x=91 -   |  | - 12 V=0                  |
| Y= 2,  |  | Sol  | ução: X=13 e Y=2.         |
| *1 (CV - 3V L 10 - 10                              | v - ( V 1 10   |  | 7                         |
| $\frac{1)55x - 34 + 10 = 10}{2x - 12y = -2x - 12}$ | 1-6/+10<br>9/10/+10  | -114   | 1 1/2                     |
| - (CA-12) - CA                                     | 27750130   | eum  | inando o y:               |
| 55x-10x-3y+6y:                                     | = 18-10  | C-CV   | +34=8 +                   |
| 72x+2x-12Y+9Y=                                     |  | 7 01   | -3y = 60                  |
|  | טנו טעו  | THE RESERVE OF THE PARTY OF THE | -0 = 68 ×(-1)             |
| (-5x+3y=+8   |  |  | -68"                      |
| 74x-3y=+60   |  |  | 2011                      |
|  |  |  | the desired to the second |

