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Processora: Dra Marisa Atenta Nitto - 12 ADS
Processora: Dra. Marisa Atsuko Nitto - 1º ADS Lista de Exercícios - Matemática 1 - Semana 6
415ta de Exercícios - Matemática 1 - Semana 6
17 Simplificar as fragoes
a) $96 = 8$ b) $24 = 4$ c) $12 = 1$ d) $30 = 5$ e) $42 = 21$ $36 = 3$ $18 = 6$ 3, $48 = 12$ 4, $24 = 6$ 4, $16 = 2$ 8.
36:12 3/18:6 3/48:12 4/24:6 4/16:2 8/
96,36 (2) 24,18 (2) 12,48 (2) 30,24 (2) 42,16 (2)
48, 18 (2) 12, 9 7 6, 24 (2) 15, 12 2 21, 8 2 24, 9 2 6, 9 2 3, 12 2 15, 6 2 21, 4 2
12,92 3,93) 3,62 15,3 3 21,22
6,92 1,33 3,33 5,15 21,13
3,9 3 J, 16, J, 112, J, 16, 7, J 7 J, 3 3 J, 16, J, 12, J, 16, 7, J 7
3,3 112,
E) 33:3 JJ g) 24:12 2 = 2, h) 30:30 J = J, i) 12:12 1
15:3 5, 12:32 1 30:30 1 24:12 2,
22 16 (2) 24 12 (2) 20 20 (2)
33, 15 (3) 24, 52 (2) 30,30 (2) 12,24 (2) 1 11,5 5 12,6 (2) 15,15 (3) 6,12 (2)
11,111 6,32 5,5 3 3,62
J, J 13, 3, 3 (3) J, J 130, 3, 3 (3) J
J) 32 = 8
8,32
2) Exetue as operações: 4,3 2
2,3,2
3,5 4,

$\frac{9}{15} = \frac{4 - 18}{30!} = \frac{4 - 3}{15} = \frac{15,5}{3}, \frac{3}{18,30} = \frac{3}{30!} = \frac{15,5}{3} = \frac{15,5}{3}, \frac{3}{18,30} = \frac{3}{30!} = \frac{15}{30!} = \frac$
$= \frac{4-9}{15} = \frac{5.5}{15.5} = \frac{3}{3}$
13 13:5 37
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$= 7 \div (14^{2}) = 7 \div 7 = 7 \times 6 = 42^{14} = 1,3 \times 12 \times 2 \times 2$
16 12:2/ 16 6 16 7 112:14 5,5/16,
=+3
= + 3 8, 21,56 2 21,28 2 21,14 2
C) (7,1) .14-(1) 1)-(6+1)-14-(1-3) 17 7/2
(1+3)·1 (9 3) (9) 7,7 (9)
$=(7 = 14) - (-2) = (7 \times 1) + 2 =$
3 1/9/314/9 1,33 9,33
1,13,3,13
=(7;7)+2=1+2=3+4=7 $=(7;7)+2=1+2=3+4=7$
=(7;7)+2=1+2=3+4=7 $=(7;7)+2=1+2=3+4=7$
=(7;7)+2=1+2=3+4=7 $=(7;7)+2=1+2=3+4=7$
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3) Resolver às equações de segundo gran dadas por:
a) $5x^2 - 3x - 2 = 0$
$\frac{ \Delta = b^2 - 4.a.c}{\alpha = 5} = \frac{ \Delta = b^2 - 4.a.c}{ \Delta = (-3)^2 - 4.5.(-2)} = \frac{3 - \sqrt{49^4}}{2.5} = \frac{3 - 7}{10} = \frac{-4^{22}}{10} = \frac{7}{10}$
$\alpha = 5$ $\Lambda = (-3)^2 - 4.5.(-2)$ 2.5 10 10:2 54
b = 9 + 90
$c = -2 \Delta = +49, \Delta > 0 \times 2 = 3 + \sqrt{49} = 3 + 7 = 10 = 3$
2.5 10 10
$X_{J,2} = -6 + \sqrt{\Delta}$ $S = S - 2, J2$ $Z.a$ $S = S - 2/S, X_{J} = -2/S, X_{J} = -2/S$
- L.a (S) NJUS, NC=1/
$\frac{1}{6}$) $3x^2 + 5s = 0$
$b) 3x^{2} + 55 = 0$ $b) 3x^{2} + 55 = 0$ $b) 3x^{2} + 55 = 0$ $b) 3x^{2} + 55 = 0$ $5 = \sqrt{93}, x \notin \mathbb{R}$
a*= 3 D=0-4.3.55
6=0 D=0-660 + Pelo delta ser menor que 0,
C=55 D=-660, D<0 não existe raiz real plessa
equação.
$C) x^2 - 30 x + 25 = 0$
(N=1240C V ==-6+7/1/-110+1)-10-15
D=0 = 01.01.C \\(\lambda_1^2\) \(\text{D} = \text{TIV} =
$\Delta = \frac{1}{\Delta} = \frac{10^{2} - 4.a.c}{\Delta = (-10)^{2} - 4.J.25}$ $X_{u,2} = -\frac{10^{+}}{2} = \frac{10^{+}}{2} = \frac{10^{+}}{$
$0 = 1$ $\Delta = (-10)^2 - 4.3.25$ Za Z.S Z $b = -30$ $\Delta = 300 - 300$
$\alpha = 1$ $\Delta = (-10)^2 - 4.3.25$ Za Z.S Z
$0 = 1$ $\Delta = (-10)^2 - 4.3.25$ Za $Z = 3.3$ Z $b = -30$ $\Delta = 100 - 100$ $S = 2 + 5 + 5 $ $X_1 = +5$, $X_2 = +5$
$0 = 1 \Delta = (-10)^2 - 4.3.25$
$0 = 1 \Delta = (-10)^2 - 4.3.25$ $6 = -30 \Delta = 300 - 300$ $C = 25 \Delta = 0$ $5 = 2 + 5 + 5 = 3$ $0 = 1 \Delta = (-10)^2 - 4.3.25$ $0 = 2.3 Z = 2.3$ $0 = 2.3 Z = 45$
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(a) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$0 \times^2 - x - 20 = 0$
1 /2 /2 / a.c V = 1 - 7 al = 1 - 9 = -8 = -7
b 1 1/=(-1)2-4.1(-20) 2.1 2 2
C=-20 D=1+80
D=81, D>0 X2=1+V81=149=10=5,
2,1 2 2
XU,21=-6±V1 S=2-4,53
- 2a X1=-4, X2=5,
X11 = - P - D - D - D - D - D - D - D - D - D
$(x) \times (x^2 - 8x + 7 = 0)$
$1\Delta = 6^2 - 4.a.c$ $X_1 = 8 - \sqrt{36} = 8 - 6 = 2 = 1$
$\frac{\Delta = 6^2 - 4.a.c}{\Delta = 5^2 - 4.3.7} \times 1 = 8 - 6 = 2 = 1,$ $\frac{\Delta = 6^2 - 4.a.c}{\Delta = 6^2 - 4.3.7} \times 1 = 2.3$
b=-8 A=64-28
$C = 7 \Lambda = 36, \Delta > 0 \chi_2 = 8 + \sqrt{36} = 8 + 6 = 14 = 7$
D. 1. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
X(3,2)=-6+VA' S= {1,7}
$2a$ $x_{s}=+1$, $x_{2}=+7$
$9)3x^2-15x+12=0$
1 D=62-4.a.c X3=15-785=15-9=6=1
7 1 1 1 1 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2
$0=5$ $1=(-15)^{2}-9.5.12$ 2.5 6 6 $6=-15$ $1=225-144$
C= 12 D= 81, A>0 X2= 15+ V81 = 15+9 = 29:6 = 4 = 4
C=12 D=81, D>0 X2=15+ V81=15+9=29:6=4=4,
The state of the s
X(1,2) = 0 - 00 $Z = 0 - 00$ $X = 0 - 00$
Za 5= {1,43 X1=+1, X2=+4,
11:2 CV H = 0 1 V = C 11 5 1 11:2
h) x 2-5x+6=0 x1=5-1=5-1=4=2
1=62-4.a.c Z.s 2 2
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0.25 $0=(-5)^2-4.5.6$
6=-5 1=25-24 X2=5+V5 =5+J=6=3
$\frac{6=-5}{C=6} = \frac{1}{\Delta} = \frac{25-24}{\Delta} = \frac{1}{25} = 1$
6=-5 1=25-24 X2=5+V5 =5+J=6=3

i) 2x2-7x=15 X(J,2)=-6+ VA S=3-3, S{XJ=-3, X2=1
1) $2x^2 - 7x = 15$ $(3,2) = -6 \pm \sqrt{1}$ $5 = 3 - 3$ 5 2 $2 = 1$ $2x^2 - 7x - 15 = 0$ 7.9 7.9
0-84x31-5x
$\alpha = 2$ $\Delta = 6^2 - 4.a.c$ $X_1 = 7 - \sqrt{169} = 7 - 13 = -6^{\circ 2} = -3$
$6 = -7$ $\Delta = (-7)^2 - 4.2.(-15)$ 2.2 4 4:2 2
C = -15 $A = 49 + 120$
$\Delta = 169, \Delta > 0$ $X_2 = 7 + \sqrt{169} = 7 + 13 = 20 = 5 = 5$
C.C 1 1 7 7 3
$J)4x^{2}+9= 2x \Rightarrow 4x^{2}- 2x+9=0$
$\frac{1}{10000000000000000000000000000000000$
$0=4$ $\Delta=(-12)^2-4.4.9$ $X_{13,21}=-6\pm\sqrt{\Delta}=X_{13,23}=12\pm0=$
6=-12 1=144-144 - Z.a. 2.4
$C=9 \Delta=0$
$X(f,2) = 12.4 = 3$ $X_1 = X_2 = 3$ $S = \frac{2}{3}/2, \frac{3}{2}$ $8:4$ Z_1 Z_2
5= 23/2, 3/23 8:4 2, 2,
11) 2 2 12 12 12 12 12 12 12 12 12 12 12 12
$(K) 2x^2 = -12x - 18 \Rightarrow 2x^2 + 12x + 18 = 0$
= 1 1 1 − 6 2 − 4.a.C
= 1 1 1 − 6 2 − 4.a.C
= 1 1 1 − 6 2 − 4.a.C
$0 = \frac{1}{2} = \frac{12^{2} - 4.2.18}{6 = 12} = \frac{12 \cdot 4.2.18}{12 \cdot 4.2.18} = \frac{12 \cdot 4.2.18}{12 \cdot 4$
$0 = \frac{1}{2} \Delta = \frac{12^{2} - 4.2.18}{\Delta = 12} \times \frac{12 + 0}{2.18} \times \frac{12 + 0}{2.2} = -\frac{12 + 0}{2.2} = -\frac$
$0 = \frac{1}{2} = \frac{12^{2} - 4.2.18}{6 = 12} = \frac{12 \cdot 4.2.18}{12 \cdot 4.2.18} = \frac{12 \cdot 4.2.18}{12 \cdot 4$
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data 06.04. 4 m + 3x2+5x = -x-9+2x2 5= 2-33 3x2-2x2+5x+x+9=0 x2+6x+9=0 X(s,z) = -6 + J = X(s,z) = -6 + Jo = =62-4.a.C 2.0 A=62-4.3.9 $=-6\pm0=-6=-3$, $X_1=X_2=-3$, 1=36-36 n) x2+x-7=5 = x2+x-7-5=0 => x2+x-12=0 X1=-J+V49 =-J-7=-8=-4 Bazj 1=62-4.a.C 1=32-4.1.(-12) 1=1+48 C=-12 X2= -1+ J49 = -1+7= 6=34 D=49, D>0 X(J,Z) = -6+VD S= {-4,33 X1=-4, X2=+3 Gabriel Congalves de Oliveira 2111550021 1ºADS $2x = 15 - x^2 \Rightarrow x^2 + 7x - 15 = 0$ 1=62-4.a.c Q= J D= 22-4.J.(-15) X1=-2-769=-2-8=-10=-5=-5 6=2 D=4+60 C=-15 1=64, 1>0 X2=-2+064 = -2+8=6=3, X(3,2)=-6+-VD 7.0 5= {-5,3} X1=-5, X2=+3 + Esse descobri no algoritmo em C++ !!