data 06 -0 4 - 21 © 5 -0 9 5 5 © 6 -0 9 5 5

8888 R 888
Processora: Dra Marisa Atsuka Netto - 12 Abs
Processora: Dra. Marisa Atsuko Nitto - 1º ADS Lista de Exercícios - Matemática 1 - Semana 6
17 C 1 0 = 0 = 1-1-3X = 4V - 4 = 3X
1) Simplificar as frações
a) 96 = 8 6) 24 = 4 c) 12 = 1 d) 30 = 5 e) 42 = 21
- 36:12 Br 18:63 48:12 4 24:6 H 16:2 8c
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
6,92 3,33,3 3,5 2,13
3,9 3- 1, 16, 1, 112, 1, 16, 7, 17
J, 3 3 J, J 112
1.5. 0. X 13. 2. 13. 3. 13. 3. 1
() 33 = JJ (g) 24:12 2 = 2 (h) 30:30 J = J i) 12:12 1
15:3 5 12:32 2 30:30 1 24:12 2
33,15 (3) 24,52 (2) 30,30 (2) 12,24 (2)
11,5 5 12,6 2 15,15 3 6,12 2
1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
- C S 12, C S 5 12,
1) 72:4 8 32 12 12 12 12
12:43,
8,32
27 Exetue as operações: 4,3 ?
1 1 3 3
J, J 4, Jed without

3) Resolver às equações de segundo gran dadas por:
$0)5x^2-3x-2=0$
$\frac{1}{1 - \frac{1}{2}} = \frac{1}{2} = \frac{1}$
$\alpha = 5$ $\Lambda = (-3)^2 - 4.5.(-2)$ 2.5 10 10:2 54
b - 7 11 = 9 + 90
$c = -2 \Delta = +49, \Delta > 0 \times 2 = 3 + \sqrt{49} = 3 + 7 = 10 = 1,$
Z.S 10 10
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- La (s) NS-415, NC-11
$(6) 3x^2 + 5s = 0$
N=6 ² -4.a.c S= ₹Ø3, X ≠ R
a=3 D=0-4.3.55
b=0 D=0-660 + Pelo delta ser menor que 0,
C=55 D=-660, D<0 não existe raiz real p/essa
equação.
equação.
$C) x^2 - 30 x + 25 = 0$
$C) x^2 - 30 x + 25 = 0$
C) $x^2 - J0x + 25 = 0$ $\Delta = b^2 - 4.a.c$ $X_{4,2} = -b^{+} \sqrt{\Delta} = +10 \pm 0 = + 50 \pm 5$ $\Delta = 1$ $\Delta = (-10)^2 - 4.5.25$ Za $Z \cdot S$
C) $\chi^2 - J0 \times + 2S = 0$ $\Delta = b^2 - 4.a.c$ $\chi_{u,z} = -b^+ \sqrt{\Delta} = +10 \pm 0 = + 50 \pm 5$ $\Delta = 1$ $\Delta = (-10)^2 - 4.5.2S$ Za $Z = 5$
C) $x^2 - J0x + 25 = 0$ $\Delta = b^2 - 4.a.c$ $X_{4,2} = -b^{+} \sqrt{\Delta} = +10 \pm 0 = + 50 \pm 5$ $\Delta = 1$ $\Delta = (-10)^2 - 4.5.25$ Za $Z \cdot S$
C) χ^{2} $J0 \times + 25 = 0$ $\Delta = b^{2} - 4.a.c$ $X_{u,2} = -b^{+} U \Delta^{-} = +10 \pm 0 = +10 \pm 5$, $\Delta = 1$ $\Delta = (-10)^{2} - 4.3.25$ Za $Z = 3$ $Z = 5$ $\Delta = -J0$ $\Delta = J00 - J00$ $C = 25$ $\Delta = 0$ $S = 2 + 5 + 5$ $X_{1} = +5$, $X_{2} = +5$
C) $x^{2} - J0x + 25 = 0$ $A = b^{2} - 4.a.c$ $X_{0,2} = -b^{+} \sqrt{\Lambda}^{-} = +10 \pm 0 = + 50 \pm 5$, $A = 1$ $A = (-10)^{2} - 4.J.25$ $A = 0$ $A = 100 - 100$ A = 100 - 100 $A = 100 - 100$ $A = 100$
C) $x^{2}-J0x+2S=0$ $\Delta=b^{2}-4.a.c$ $X_{4,2}=-b^{+}\sqrt{\Delta}=+10\pm0=+50=+5$ $\Delta=1$ $\Delta=(-10)^{2}-4.3.2S$ Za $Z.J$ Z $b^{2}-J0$ $\Delta=J00-J00$ $C=2S$ $\Delta=0$ $S=\frac{2}{5}+\frac{5}{5}+\frac{5}{5}$ $X_{3}=+S$, $X_{2}=+S$ d) $X^{2}-6X=0$ $\Delta=b^{2}-4.a.c$ $X_{3}=6\pm\sqrt{3}b^{2}=6-6=0=0$
C) $x^{2} - 30 \times + 25 = 0$ $A = b^{2} - 4 \cdot a \cdot C$ $X_{0,2} = -b^{+} \cdot \sqrt{\Lambda} = +10 \pm 0 = +50 \pm 5$, $a = 1$ $\Delta = (-10)^{2} - 4 \cdot 3 \cdot 25$ $2a$ $2 \cdot 3$ 2 $b = -30$ $\Delta = 300 - 300$ $C = 25$ $\Delta = 0$ $S = \frac{2}{4} + 5 \cdot \frac{45}{3}$ $X_{1} = +5$, $X_{2} = +5$, $X_{2} = +5$, $X_{3} = +5$, $X_{4} = +5$, $X_{5} $
C) $x^{2}-30 \times +25 = 0$ $(\Delta = b^{2}-4.a.C) \times (0,2) = -b^{+} \sqrt{\Delta} = +10 \pm 0 = +10 \pm 5,$ $\alpha = 1 \Delta = (-10)^{2}-4.3.25 \qquad 2a \qquad 2.5 \qquad 2$ $b^{-}-30 \Delta = 300-300 \qquad 5 = 2 + 5 \pm 3 \qquad x_{1} = +5, x_{2} = +5$ $d) x^{2}-6x = 0$ $\Delta = b^{2}-4.a.c x_{1} = 6 \pm \sqrt{3}b^{+} = 6 - 6 = 0 = 0,$ $\alpha = 1 \Delta = (-6)^{2}-4.3.0 \qquad 2.5 \qquad 2$ $b = -6 \Delta = 36-0$
C) $x^{2} - 30x + 25 = 0$ $A = b^{2} - 4.a.c$ $A = 1$ $A = (-10)^{2} - 4.3.25$ $A = 1$ $A = -30$ $A = 100 - 100$ $A =$
C) $x^{2}-30 \times +25 = 0$ $ \Delta=b^{2}-4.a.C \times (4,2) = -b^{+} \sqrt{\Delta}^{-} = +10^{+}0 = +50 = +5$ $a=1$ $\Delta=(-10)^{2}-4.5.25$ $2a$ 2.5 2 $b=-30$ $\Delta=300-300$ $C=25$ $\Delta=0$ $ \Delta=b^{2}-4.a.C \times 1=6^{+} \sqrt{3}6=6-6=0=0$ $ \Delta=b^{2}-4.a.C \times 1=6^{+} \sqrt{3}6=6-6=0=0$ $ \Delta=36-0 \times 2=6+\sqrt{3}6=6+6=12=6$ $ \Delta=36-0 \times 2=6+\sqrt{3}6=6+6=12=6$ $ \Delta=36-0 \times 2=6+\sqrt{3}6=6+6=12=6$
C) $x^{2} - 30x + 25 = 0$ $A = b^{2} - 4.a.c$ $A = 1$ $A = (-10)^{2} - 4.3.25$ $A = 1$ $A = -30$ $A = 100 - 100$ $A =$

\$233 - X3 = 2, X2 = 3,

(e) V2
$0 \times ^{2} - \times - 20 = 0$
1 /2h - 4 a.c X = 1 - 7 al = 1 - 9 = -8 = -9,
6=-1 1=(-1)2-41(-20) 21 2 2
C=-20 D=1+80
D=81, D>0 X2=1+V81=149=10=5,
X(s,2) = -6 ± VA S= 2-4,53
X(s,2) = -6 + V1 S= 2-4,53
$-2a$ $x_{1}=-4, x_{2}=5,$
11.201.7
$F/x^2-8x+7=0$
$\frac{\Delta = 6^2 - 4.a.c}{\Delta = 5} = \frac{1}{100}$ $\frac{\Delta = 6^2 - 4.a.c}{\Delta = 5} = \frac{1}{100}$ $\frac{\Delta = 6^2 - 4.a.c}{\Delta = 6} = \frac{1}{100}$ $\frac{\Delta = 6^2 - 4.a.c}{\Delta = 6} = \frac{1}{100}$ $\frac{\Delta = 6^2 - 4.a.c}{\Delta = 6} = \frac{1}{100}$ $\frac{\Delta = 6^2 - 4.a.c}{\Delta = 6} = \frac{1}{100}$
b=-8 A=64-28
C=7 1=36, 1>0 X2=8+V36=8+6=14=7
Dup vale of 2.5 2 12 0"
X(3,2)=-6-VA' S={1,7}
$2a$ $x_{s}=+1$, $x_{2}=+7$
172 162112-0
$9)3x^{2}-15x+12=0$
D=62-4.a.c Xs=15-781=15-9=6=1,
$\alpha = 3 \Delta = (-15)^2 - 4.3.12$ 2.3 6 6
6=-15 1=225-144
6=-15 1=225-144
6=-15 A=225-144 C=12 D=81, D>0 X2=15+ V81=15+9=24:6=4=4
$6=-15$ $\Lambda=225-144$ $C=12$ $\Delta=81$, $\Delta>0$ $X2=15+V81=15+9=24:6=4=4$ $X(1,2)=-6+V\Delta'$ $X(1,2)=-6+V\Delta'$
$6=-15$ $\Lambda=225-144$ $C=12$ $\Delta=81$, $\Delta>0$ $X2=15+V81=15+9=24:6=4=4$ $X(42)=-6+V\Delta'$
$6=-15$ $\Lambda=225-144$ $C=12$ $\Delta=81$, $\Delta>0$ $X2=15+ \sqrt{81}=15+9=24:6=4=4$ $X(1,2)=-6=\sqrt{4}$ $X=-15$
$6 = -15 \Lambda = 225 - 144$ $C = 12 \Delta = 81, \Delta > 0 X2 = 15 + \sqrt{81} = 15 + 9 = 24.6 = 4 = 4,$ $X(1,2) = -6 - \sqrt{\Delta}$ $Z(1,2) = -6 - \sqrt{\Delta}$ $Z(1$
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
6=-15 $\Lambda = 225 - 144$ C=12 $\Delta = 81$, $\Delta > 0$ $X2 = 15 + \sqrt{81} = 15 + 9 = 24.6 = 4 = 4.7$ $X(4,2) = -6 + \sqrt{\Delta}$ Z.a $S = 5.4Z.a$ $Z = 5.4$
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1) $2x^2 - 7x = 15$ $(3,2) = -6 \pm \sqrt{3}$ $(5 = 5 - 3, 5) \times (3 = -3, 2)$ $2x^2 - 7x - 15 = 0$ $(3,2) = -6 \pm \sqrt{3}$ $(5 = 5 - 3, 5) \times (3 = -3, 2)$ $(3,2) = -6 \pm \sqrt{3}$ $(5 = 5 - 3, 5) \times (3 = -3, 2)$
$2x^{2}-7x-1S=0$ 7.0 [2)
$\alpha = 2$ $\Delta = 6^2 - 4.a.c$ $X_1 = 7 - \sqrt{169} = 7 - 13 = -6.2 = -3$
6=-7 1=(-7)2-4.2.(-15) 2.2 4 4:2 2
C=-15 A=49+120
$\Delta = 169, \Delta > 0$ $X_2 = 7 + \sqrt{169} = 7 + 13 = 20.9 = 5 = 5$
2.2 4 4:4]
$\int (4x^2 + 9) = 12 \times 34x^2 - 12x + 9 = 0$
$b = b^2 - 4.a.c$
$a=4$ $A=(-12)^2-4.4.9$ $X_{13,21}=-6\pm\sqrt{\Delta}=X_{13,23}=12\pm0=$
6=-12 1=144-144 - 2.a. 2.4
$C=9$ $\Delta=0$
S= \(\frac{2}{3}/2,\frac{3}{2}\frac{2}{3}\)
5= 23/2, 3+25 8:4 2, 2,
V 2 2 12 12 2 2 2 12 10 - M
$ K 2x^2 = -12x - 18 \Rightarrow 2x^2 + 12x + 18 = 0$
€ \$ \D=62-4.a.C
$0 = \frac{1}{2} \left[\Delta = 6^2 - 4.2.18 \right] \times (3.7) = -6 + \sqrt{\Delta} = -12 = 0 = -12 = 0$
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$0 = \begin{cases} 2 - 4 = 12^{2} - 4 = 2 \\ 0 = 12 - 4 = 12 \end{cases} \times (3,2) = -6 + \sqrt{2} = -12 = 0 = -12 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = $
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