i)
$$\frac{0.2 \cdot 0.3}{3.2 - 2}$$
 j) $\frac{5 - 1.25 \cdot 0}{(0.5)^2 + 3.6}$

$$(0,3) + 3,0 = 1$$

$$(1+\frac{1}{2}) + \frac{1}{1-\frac{1}{2}} + \frac{1}{1-\frac{1}{2}}$$

$$\begin{array}{c} 3) \ 1_{1}25 = \frac{125}{100} = \frac{5}{4} \\ 0_{1}2 = \frac{2}{10} = \frac{1}{5} \end{array}$$

$$0_15 = \frac{5}{10} = \frac{1}{2}$$
$$\left(0_1^5\right)^2 = \left(\frac{1}{2}\right)^2 = \frac{1}{4}$$

$$3/b = 36 = 18$$

$$J = \frac{5 - \frac{1}{4}}{\frac{4}{4} + \frac{4}{5}}$$

$$J = \frac{20 - 1}{4}$$

$$5 + 4$$

$$J = \frac{19 \cdot \%.5}{\%.5}$$

$$J = \frac{95}{9}$$

$$L = \frac{\frac{3}{2}}{\frac{1}{2}} + \frac{\frac{5}{4}}{\frac{3}{4}} = \frac{3 \cdot \cancel{2}}{\cancel{2}} + \frac{5 \cdot \cancel{4}}{\cancel{4}}$$

$$L = 3 + \frac{5}{3} = \frac{3.3 + 5}{3}$$

$$\frac{125}{100} = \frac{25}{20} = \frac{5}{4}$$

20

20.

$$x \cdot (x+1) \cdot (2x-1) \cdot (2x-4) = 0$$

Propriedade

$$ab = 0 \Rightarrow a = 0 \text{ on } b = 0$$

$$U = Q \qquad 5 = 40_1 - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$U = \mathcal{H} \qquad 5 = 40_1 - \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$U = 1N \qquad 5 = 40_1 \cdot \frac{1}{2} \cdot \frac{1}{2}$$

a)
$$(2x-3)(5x+2)=0$$
 b) $x^{2}(20x-12)=0$ c) $3x(2x-1)\left(x+\frac{7}{6}\right)=0$ d) $x\left(x-\frac{3}{2}\right)\left(\frac{x}{2}-3\right)=0$ The left $\frac{6}{2}$ of $\frac{1}{2}$ $\frac{1}{2}$

a)
$$(2x-3)$$
, $(5x+2)=0$

$$(2x-3)$$
, $(5x+2)=0$

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$$(3x-$$

$$\alpha S = \frac{3}{2}i - \frac{2}{5}i$$

2x-3=0 $\left(\frac{3}{2} = 80\right) \cdot da = \frac{1}{4}$

pois 2, 3 -3=0 éV.

a)
$$(2x+3)(5x+2)=0$$
 b) $x^{2}(20x-12)=0$ c) $3x(2x-1)(x+\frac{7}{6})=0$ d) $x(x-\frac{3}{2})(\frac{x}{2}-3)=0$

$$E = \frac{1}{X+1}$$

€ PROIBIDO DIVIDIR POR ZERO

Cond. existência
$$x+1 \neq 0 \Rightarrow x \neq -1$$

•Resolva as equações do 2º grau em IR.

$$\begin{array}{c} x^{2} - 49 = 0 \\ x^{2} + 9 = 0 \\ x^{2} - x - 12 = 0 \\ \frac{x^{2}}{6} - \frac{2x}{3} = \frac{3x - 10}{4} \\ \frac{x^{2}}{4} + \frac{2x}{3} = 0 \\ \frac{(x - 11)^{2}}{10} - \frac{(6x - 1)^{2}}{5} = 7 - \frac{7x - 3}{2} \end{array}$$

$$\begin{array}{c} x^{2} = 9 \\ 7 \\ 0 \end{array}$$

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$$\begin{array}{c} x^{2} = 9$$

$$x^{2} > 0$$
, $f \times \in \mathbb{R}$ qualquer $f \times \text{real}$ $f \times \text{t} = \frac{49}{4}$ $f \times \text{t} = \frac{49$

$$x^{2} + 9 = 0$$

$$x^{2} = -9$$

$$x^{3} = -9$$

$$x^{4} = -9$$

$$\frac{x^2}{4} + \frac{2x}{3} = 0$$

$$\frac{3x^2 + 8x}{12} = 0$$

$$3x^2 + 8x = 0$$

$$3x^2 + 8x = 0$$

$$x^{2} + 9 = 0$$

$$x^{2} = -9$$

$$x = 0 \text{ at } 3x + 8 = 0$$

$$x = -\frac{8}{3}$$

$$x = 0 \text{ at } x = -\frac{8}{3}$$

$$x = 0 \text{ at } x = -\frac{8}{3}$$

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$$x = 0 \text{ at } x = -\frac{2}{3}$$

$$x = 0 \text{ at } x = -\frac{8}{3}$$

$$\frac{x^2}{6} - \frac{2x}{3} = \frac{3x - 10}{4}$$

$$\frac{m^{2}+m}{5m^{2}+10m+5} = \frac{m \cdot (m+1)}{5 \cdot (m^{2}+2m+1)} = \frac{m \cdot (n+1)}{5 \cdot (m+1)^{2}} = \frac{m}{5(m+1)}$$

$$\frac{7 \cdot Q \cdot P}{a+2ab+b} = (a+b)^{2}$$

$$\frac{(x+1)}{4} = \frac{5}{2} - \frac{(1-2x)}{3}$$

$$mmc(4,2,3)=12$$

$$\frac{2}{5} = \frac{2}{5}$$

$$\frac{3 \cdot (x+1)}{3(x+1)} = \frac{5 \cdot 6 - 4 \cdot (1-2x)}{72}$$

$$3(x+1) = 30 - 4(1-2x)$$

$$3x+3 = 30 - 4 + 8x$$

$$3x+3 = 26 + 8x$$

$$3x+3 = 26 + 8x - 3$$

$$3x = 26 + 8x - 3$$

$$3x = 23 + 8x$$

$$7 - 8x$$

$$3x - 8x = 23$$

$$-5x = 23$$

$$\frac{1-5x}{-5} = \frac{23}{-5}$$

$$\chi = -\frac{23}{5}$$

$$-\frac{23}{5} = \frac{-23}{5} = \left(\frac{23}{-5}\right)^{-5} du$$

noo e costume dirac assin

f)
$$\frac{(2x-3)}{6} - \frac{(1-x)}{3} \le 1 - \frac{(x+1)}{12}$$

mequação do 1º aparl

obsitive isolar X

$$\frac{1}{6} = \frac{1}{3} = \frac{1}{12}$$

$$\frac{1}{2}$$

$$\frac{1^{2}}{\sqrt{12}} \frac{1^{2}}{\sqrt{12}}$$
1. $12 - 1.(x+1)$

Come
$$\frac{1250}{1250}$$
, enture $2.(2x-3)-4.(1-x) \le 12-(x+1)$

$$4x-6-4+4x < 12-x-1$$
 $8x-10 < 11-x < 12-x-1$
 $8x < 10 < 11-x < 10$
 $8x < 11-x + 10$