$$E = \frac{(7x+2)}{2} - \underbrace{(1,5)}_{1,5} - \underbrace{(4x-1)}_{3} - \underbrace{(0,75)}_{6}$$

$$E = \frac{(7x+2)}{2} - \frac{3}{2} - \frac{(4x-1)}{3} - \frac{x}{8}$$

mm(2,3,8) = 24

$$E = \frac{12 \cdot (7x + 2) - 12 \cdot 3 - 8 \cdot (4x - 1) - 3x}{12 \cdot 3 - 8 \cdot (4x - 1) - 3x}$$

$$E = \frac{84 \times + 24 - 36 - 32 \times + 8 - 32}{24}$$

$$1_{1}5 = \frac{15}{10} = \frac{3}{2}$$

$$0_{1}75 = \frac{75}{100} = \frac{3}{4}$$

$$\frac{0_{1}75x}{6} = \frac{\frac{3}{4} \cdot x}{6} = \frac{\frac{1}{4} \cdot x}{4} \cdot \frac{1}{100} = \frac{x}{8}$$

$$E = \frac{49 \times -4}{24}$$

$$E = \frac{49x}{24} - \frac{4}{24}$$

$$E = \frac{49x}{24} - \frac{1}{6}$$

a)
$$0.5 - 0.9 - \frac{7}{5}$$
 b) $3^3 - 2^4 \cdot 3$ c) $3^{-1} - \left(\frac{1}{3}\right)^2$ d) $-\frac{3}{\sqrt{-8}} + 16^{\frac{1}{4}} - \left(-\frac{1}{2}\right)^{-2} + 27^{-\frac{1}{3}}$ e) $\sqrt{12} - \sqrt{48}$ f) $\frac{\frac{1}{5}}{\left(1 - \frac{4}{5}\right)^2}$ g) $\frac{0.6 - 6}{3^{-2}}$

$$aereq = \frac{1}{a^m}, men^*$$

$$(\alpha^m)^m = \alpha^{m \cdot m}$$

$$\frac{1}{4} = \left(\frac{1}{2}\right)^{\frac{1}{4}} = 2 = 2$$

$$\frac{1}{4} = \left(\frac{1}{2}\right)^{\frac{1}{4}} = 2$$

$$\frac{1}{4} = \left(\frac{3}{2}\right)^{-\frac{1}{3}} = 3 = 3 = -\frac{1}{3}$$

$$\frac{1}{2} = \left(\frac{3}{3}\right)^{-\frac{1}{3}} = 3 = 3 = \frac{1}{3}$$

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$$\frac{1$$

i)
$$\frac{0.2 \cdot 0.3}{3.2 - 2}$$
 j) $\frac{5 - 1.25 \cdot 0.2}{(0.5)^2 + 3.6 \div 18}$ k) $\frac{\frac{3}{4} + \frac{1}{6}}{1 - \frac{3}{4} \cdot \frac{1}{6}}$ l) $\frac{1 + \frac{1}{2}}{1 - \frac{1}{2}} + \frac{1 + \frac{1}{4}}{1 - \frac{1}{4}}$

$$\frac{\frac{3}{4} + \frac{1}{6}}{\frac{1}{1} - \frac{1}{8}} = \frac{\frac{3.3 + 1.2}{12}}{\frac{1.8 - 1.1}{2}} = \frac{\frac{11}{12}}{\frac{7}{8}} = \frac{\frac{22}{12}}{\frac{7}{8}} = \frac{22}{21}$$

$$\frac{10.6}{12.6} = \frac{12.3.4}{35.11} = \frac{12.3}{5.4.11} = \frac{36}{55} / \frac{12}{35} + \frac{21}{11} = \frac{12.11 + 21.35}{35.11}$$

$$d)\left(\sqrt{5+\sqrt{9}}-\sqrt{5-\sqrt{9}}\right)^{2} = \left(\sqrt{8}-\sqrt{2}\right)^{2} = \left(\sqrt{2^{3}}-\sqrt{2}\right)^{2} = \left(2\sqrt{2}-\sqrt{2}\right)^{2} = \left(\sqrt{2}\right)^{2} = 2$$

$$\sqrt{6}\sqrt{5} + \sqrt{9} - \sqrt{5} - \sqrt{9}$$

$$\sqrt{9}\sqrt{5} + \sqrt{9} - \sqrt{5} + \sqrt{2}$$

$$\sqrt{9}\sqrt{5} + \sqrt{9} - \sqrt{5} + \sqrt{2}$$

$$\sqrt{9}\sqrt{5} + \sqrt{9} + \sqrt{12}$$

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par

$$2 = 9 \Rightarrow x = \sqrt{9}$$
 on $x = -\sqrt{9}$
 $x = +3$ on $x = -3$
 $x = +5$ on $x = -\sqrt{5}$

$$(a-b)^2 = a^2 - 2ab + b^2$$
 $(a-b)(a-b) = a^2 - ab - ba + b^2$

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

b)
$$x^2(20x-12)=0$$

c)
$$3x(2x-1)\left(x+\frac{7}{6}\right)=0$$

c)
$$3x(2x-1)\left(x+\frac{7}{6}\right)=0$$
 d) $x\left(x-\frac{3}{2}\right)\left(\frac{x}{2}-3\right)=0$

$$ab = 0 \implies a = 0 \text{ ou } b = 0$$
 inesque civel!

$$\frac{1}{2} = 0 \quad \text{ou} \quad x - \frac{3}{2} = 0$$

$$+ \frac{3}{2} \qquad 1$$

$$x = \frac{3}{2}$$

or
$$\frac{x}{2} - 3 = 0$$
 $\frac{x}{2} - 3 + 3 = 0 + 3$
 $\frac{x}{2} - 3 + 3 = 0 + 3$
 $\frac{x}{2} - 3 + 3 = 0 + 3$

$$5 = \frac{3}{216}$$

$$\frac{\lambda}{2} = 3$$

$$\frac{\lambda}{2} = 3.3$$

$$\chi = 2.3$$

$$\chi = 6$$

a)
$$x-4>-11$$
 b) $2+2x \ge 8+5x$ c) $3-\frac{1.4 \cdot x}{13} < x$ In quacia 1: qual

A) $x-4>-11$ b) $2+2x \ge 8+5x$ c) $3-\frac{1.4 \cdot x}{13} < x$ In quacia 1: qual

A) $x-4>-11$ b) $2+2x \ge 8+5x-2$

B) $2+2x \ge 2 > 8+5x-2$
 $2x > 7, 8+5x-2$
 $2x > 7, 6+5x$
 $3 > 7, 6$
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$$x^{2} + ax + bx + ab$$

$$accompaniento$$

$$x. (x+a) + b. (x+a)$$

$$(x+a)(x+b)$$

$$\frac{A}{B} = \frac{(x+1).(x+2)(x-2)}{(x+2).(x+1)(x-1)} = \frac{x-2}{x-1}$$

$$E = \frac{2a - 2b}{25xy} \cdot \frac{(a^2 - 2ab + b^2)}{50x^3} - \frac{3x}{(5a - 5b)} \cdot \frac{5x}{9y} = \frac{2(a - b)}{25 \times y} \cdot \frac{(a - b)^2}{50 \times 3}$$

$$E = \frac{2(a - b)}{3} \cdot \frac{x^2}{(a - b)^2} - \frac{x}{3(a - b)y}$$

$$E = \frac{4x^2}{(a - b)y} - \frac{x}{3(a - b)y}$$

$$E = \frac{3 \cdot 4x^2 - x \cdot 1}{3 \cdot (a - b)y}$$

$$A - b = \frac{2(a - b)}{3} \cdot \frac{(a - b)^2}{3 \cdot (a - b)^2}$$

$$A - b = \frac{2(a - b)^2}{3 \cdot (a - b)^2}$$

$$= \frac{(\alpha - b)^2}{50 \times 3} - \frac{1}{2(\alpha - b)} \cdot \frac{5 \times 3}{3 \cdot y}$$

$$= \frac{12 \times 2 - \times}{3 \cdot (\alpha - b) \cdot y}$$

$$= \frac{\times \cdot (12 \times - 1)}{3 \cdot (\alpha - b) \cdot y}$$

$$\frac{\alpha - b}{3 \cdot (\alpha - b)} = \frac{1}{\alpha - b}$$

$$\frac{(\alpha - b)^2}{3 \cdot (\alpha - b) \cdot (\alpha - b)} = \frac{1}{\alpha - b}$$

$$\frac{\times^3}{3} = \times^2$$

$$\frac{x^{4} - y^{4}}{x^{3} - x^{2}y + xy^{2} - y^{3}} = \frac{A}{B}$$

$$a^2 \pm 2ab + b^2$$

$$A = x^{4} - y^{4} = \frac{(x^{2})^{2} - (y^{2})^{2}}{b^{2}} = \frac{(x^{2} + y^{2})(x^{2} - y^{2})}{a + b^{2}} = \frac{(x^{2} + y^{2})(x + y)(x - y)}{a + b^{2}}$$
diferença de quadrados

$$B = x^{3} - x^{2}y + xy^{2} - y^{3} = x^{2} \cdot (x - y) + y^{2}(x - y) = (x - y) \cdot (x^{2} + y^{2})$$
falor
$$convert
convert
x^{2}$$

$$\frac{A}{B} = \frac{(\chi^2 + y^2)(\chi^2 + y^2)}{(\chi^2 + y^2)} = (\chi^2 + y^2)$$

$$\frac{2+2y-x-xy}{4-x^2} = \frac{A}{B}$$

$$A = 2 + 2y - x - xy = 2 \cdot (1 + y) - x (1 + y) = (1 + y)(2 - x)$$

$$B = 4 - x^{2} = 2^{2} - x^{2} = (2 - x)(2 + x)$$

$$\frac{A}{B} = \frac{(1+y)(2-x)}{(2-x)(2+x)} = \frac{1+y}{2+x}$$