

Résoudre:

$$\frac{2x-3}{4} - \frac{x-1}{10} = \frac{10x+2}{12} \quad -\frac{49}{16}$$

$$\frac{5-x}{3} - \frac{2x+1}{7} = 2 - \frac{x}{2} \quad -4$$

$$\frac{x+3}{4} - \frac{2x-1}{6} = 1 - \frac{x+1}{3} \quad -1$$

$$x + \frac{1}{2} + \frac{x}{3} = 2x - 3 - \frac{2x}{3} \quad \emptyset$$

$$\frac{x}{2} - \frac{x}{3} + \frac{1}{6} = \frac{x}{6} + \frac{1}{2} - \frac{1}{3} \quad \mathbb{R}$$

$$\frac{x+1}{2} + \frac{3x-4}{5} + \frac{1}{8} = \frac{6x+7}{8} \quad 3$$

$$\frac{5x-11}{4} + \frac{x-1}{10} = \frac{11x-1}{12} \quad \frac{83}{13}$$

$$\frac{7x-8}{11} + \frac{15x+8}{13} = 3x - \frac{31-x}{2} \quad 9$$

$$\frac{x-3}{4} + \frac{x-4}{3} = \frac{x-5}{2} + \frac{x+1}{8} \quad 7$$

$$\frac{x-3}{4} - \frac{2x-5}{6} = \frac{41}{60} + \frac{3x-8}{5} - \frac{5x+6}{15} \quad 4$$

$$\frac{2x-6}{5} - \frac{x-4}{9} - \frac{3x}{13} = 0 \quad 13$$

$$\frac{3x-1}{5} - \frac{13-x}{2} = \frac{7x}{3} - \frac{11(x+3)}{6} \quad 2$$

$$\frac{5x-3}{7} - \frac{9-x}{3} = \frac{5x}{2} + \frac{19}{6}(x-4) \quad 2$$

$$\frac{3x+5}{7} - \frac{2x+7}{3} + 10 - \frac{3x}{5} = 0 \quad 10$$

$$\frac{7x+9}{4} - \left(x - \frac{2x-1}{9}\right) = 7 \quad 5$$

$$\frac{2x-1}{3} - \frac{3x-2}{4} = \frac{5x-4}{6} - \frac{7x+6}{12} \quad 1$$

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

Equations du premier degré

$$\frac{13x-7}{15} - \frac{8x-9}{18} + \frac{59x+57}{180} = \frac{15x+7}{20}$$

 \emptyset

$$\frac{7x-6}{9} - \frac{3x-8}{6} - \frac{3-43x}{72} = \frac{7x+5}{8}$$

 \mathbb{R}

$$\frac{3x}{4} - \frac{2x+3}{6} - \frac{5x}{24} = \frac{5x+2}{8}$$

 $\frac{9}{-5}$

$$\frac{5x}{8} - \frac{7x-4}{9} - \frac{233x-27}{360} = \frac{7-4x}{5}$$

 \emptyset

$$\frac{3(2x+1)}{4} - 5 - \frac{3x+2}{10} = \frac{2(3x-1)}{5}$$

 \emptyset

$$\frac{3(2x+1)}{4} - \frac{5x+3}{6} + \frac{x+1}{3} = x + \frac{7}{12}$$

 \mathbb{R}

Résoudre:

| | |
|--|-----------------------|
| $(x^2 - 9)(6 - 2x) = 0$ | -3, 3 |
| $(2x - 4)(-x - 1) = (-x - 1)(8 - x)$ | -1, 4 |
| $(9 - x^2)(7 - 2x) = -3x(9 - x^2)$ | -7, -3, 3 |
| $(-7 - 3x)(x - 1) = 6(x - 1)$ | $-\frac{13}{3}, 1$ |
| $(9x^2 - 9)(9 - x) = (9x^2 - 9)(2x - 5)$ | -1, 1, $\frac{14}{3}$ |
| $4x^2(2x + 5) = 4x^2(3x - 8)$ | 13, 0 |

| | |
|--|-------------------|
| $\frac{7+x}{2x-5} - \frac{3x-7}{4-2x} = 2$ | $\frac{33}{17}$ |
| $\frac{6-4x}{2x+6} - \frac{8-3x}{2x+4} = -\frac{7}{2}$ | $-\frac{39}{16}$ |
| $\frac{3x-4}{2x+1} + \frac{x+6}{3x+8} = \frac{11}{6}$ | $-\frac{244}{59}$ |
| $\frac{3x+2}{2-x} + \frac{7}{3x+9} = -3$ | $-\frac{86}{17}$ |
| $\frac{3x-3}{3x+8} + \frac{x+9}{4+3x} = \frac{4}{3}$ | $\frac{26}{15}$ |
| $\frac{x+4}{x+9} - \frac{x+1}{8-x} = 2$ | $-\frac{121}{4}$ |
| $\frac{3x+1}{8-3x} - \frac{4}{2x+1} = -1$ | $\frac{23}{30}$ |
| $\frac{-5}{3x-6} - \frac{3x+7}{x+3} = -3$ | 27 |