

Résoudre les équations suivantes (niveau 1)

1.  $(2x - 7)(6 - 4x) = 0$
2.  $(8 - 5x)(-3 + 7x) = 0$
3.  $(11x + 6)(-17x + 6) = 0$
4.  $7x(6x + 8) = 0$
5.  $-3x(5 - 6x)(8x - 12) = 0$
6.  $(5x - 7)(4x + 9)(-3 - 8x) = 0$
7.  $\left(\frac{7}{9}x + 3\right)\left(5x - \frac{2}{3}\right) = 0$
8.  $\left(\frac{4}{5} - 6x\right)\left(\frac{5}{7}x - 2\right) = 0$
9.  $\frac{3x}{x+1} = 0$
10.  $\frac{5x-7}{7x} = 0$
11.  $\frac{-6x-7}{-x-8} = 0$
12.  $\frac{-4x+3}{5-8x} = 0$
13.  $\frac{-8}{2x-5} = 0$
14.  $\frac{3x-5}{2+3x} = 0$
15.  $\frac{(3x-1)(-4x+11)}{7x-6} = 0$
16.  $\frac{-5-7x}{(x-3)(5x+3)} = 0$
17.  $\frac{-4(3x+7)}{8x+19} = 0$
18.  $\frac{-9x(3x+11)}{(-7x+5)(8x-5)} = 0$
19.  $\frac{-12}{5x-7} = 0$
20.  $\frac{8x(-3x-4)(9x+1)}{2+15x} = 0$
21.  $\frac{-50x+3}{13x-9} = 0$
22.  $\frac{3x-6}{(x-2)(3x+17)} = 0$
23.  $\frac{(4x-12)(3x+7)}{3-x} = 0$

Résoudre les équations suivantes (niveau 2)

1.  $(3x - 5)(2x + 9) + (3x - 5)(-7x + 3) = 0$
2.  $(7x - 11)(2 - 5x) - (2 - 5x)(3x - 9) = 0$
3.  $5x(5x - 3) = (8x - 7)5x$
4.  $3x(6x - 7) + 3x(5 - 4x) - 3x(8 - 9x) = 0$
5.  $(7 - x)(5x - 11) - (8 - 17x)(7 - x) = 0$
6.  $(5x + 6)(-9x + 7) + 5x + 6 = 0$
7.  $7x(-6x - 13) + 7x = 0$
8.  $(-5x + 7)(3x - 23) + 3x - 23 = 0$
9.  $8x(-11x + 6) - 8x = 0$
10.  $(3x - 5)(2 - 71x) = (3 + 8x)(3x - 5)$
11.  $(2x - 15)(3 + 13x) = 15 - 2x$
12.  $\frac{3}{x+7} + \frac{6}{3-2x} = 0$
13.  $\frac{7}{x+9} + \frac{8}{5x-1} = 0$
14.  $\frac{-5}{2x-5} - \frac{6}{4x-7} = 0$
15.  $\frac{3x+1}{x-2} = \frac{7}{2}$
16.  $\frac{3x+5}{2x-1} = \frac{9x+1}{6x-4}$
17.  $\frac{7x-6}{2-4x} + \frac{2}{7} = 0$
18.  $\frac{3x-7}{2-5x} + 3 = 0$
19.  $\frac{-3}{4x-5} = -5$
20.  $\frac{9-x}{3+2x} = 8$
21.  $\frac{-5x}{x+5} - \frac{2}{7} = 0$
22.  $x^2 - 9 = 0$
23.  $x^2 = 7$
24.  $(3x - 7)^2 - (2 - 5x)^2 = 0$
25.  $4x^2 = (3x + 8)^2$
26.  $3x^2 = -7$
27.  $(6x-7)^2 = -4x^2$