

**Exercice 1** : résoudre les équations suivantes

$x + 7 = 0$ $x = -7$	$2x + 1 = 7$ $2x = 7 - 1$ $2x = 6$ $x = 3$	$5x + 2 = 3x + 1$ $5x - 3x = 1 - 2$ $2x = -1$ $x = \frac{-1}{2}$
$2x + 1 = 0$ $2x = 0 - 1$ $2x = -1$ $x = \frac{-1}{2}$	$5x - 9 = 12$ $5x = 12 + 9$ $5x = 21$ $x = \frac{21}{5}$	$9x + 5 = 7x + 2$ $9x - 7x = 2 - 5$ $2x = -3$ $x = \frac{-3}{2}$
$3x - 4 = 0$ $3x = 0 + 4$ $3x = 4$ $x = \frac{4}{3}$	$8x - 13 = -5$ $8x = -5 + 13$ $8x = 8$ $x = 1$	$6x - 1 = 11x - 8$ $6x - 11x = -8 + 1$ $-5x = -7$ $x = \frac{7}{5}$
$5x - 8 = 0$ $5x = 0 + 8$ $5x = 8$ $x = \frac{8}{5}$	$-11x + 25 = -4$ $-11x = -4 - 25$ $-11x = -29$ $x = \frac{-29}{-11}$ $x = \frac{29}{11}$	$15x + 3 = 19x - 13$ $15x - 19x = -13 - 3$ $-4x = -16$ $x = \frac{-16}{-4}$ $x = 4$
$9x + 15 = 0$ $9x = 0 - 15$ $9x = -15$ $x = \frac{-15}{9}$	$-2x + 8 = -16$ $-2x = -16 - 8$ $-2x = -24$ $x = \frac{-24}{-2}$ $x = 12$	$23x + 8 = -4x + 1$ $23x + 4x = 1 - 8$ $27x = -7$ $x = \frac{-7}{27}$
$12 - 3x = 0$ $-3x = -12$ $x = \frac{-12}{-3}$ $x = 4$	$15 - 2x = 25$ $-2x = 25 - 15$ $-2x = 10$ $x = \frac{10}{-2}$ $x = -5$	$-5x - 3 = -2x - 7$ $-5x + 2x = -7 + 3$ $-3x = -4$ $x = \frac{4}{3}$
$89 - x = 0$ $-x = -89$ $x = 89$	$39 - 13x = 42$ $-13x = 42 - 39$ $-13x = 3$ $x = \frac{3}{-13}$ $x = \frac{-3}{13}$	$-14x - 1 = -9x + 3$ $-14x + 9x = 3 + 1$ $-5x = 4$ $x = \frac{-4}{5}$



$125 - 5x = 0$ $-5x = -125$ $x = \frac{-125}{-5}$ $x = 25$	$25 - 7x = -24$ $-7x = -24 - 25$ $-7x = -49$ $x = \frac{-49}{-7}$ $x = 7$	$-3x + 4 = 6x - 7$ $-3x - 6x = -7 - 4$ $-9x = -11$ $x = \frac{11}{9}$
$-6x + 7 = 0$ $-6x = -7$ $x = \frac{-7}{-6}$ $x = \frac{7}{6}$	$11x - 13 = 108$ $11x = 108 + 13$ $11x = 121$ $x = \frac{121}{11}$ $x = 11$	$9x + 2 = 7x - 3$ $9x - 7x = -3 - 2$ $2x = -5$ $x = \frac{-5}{2}$

**Exercice 2** : résoudre les équations suivantes.

$\frac{5}{4}x + \frac{2}{5}x + \frac{3}{2}x = 6$ $\frac{25x}{20} + \frac{8x}{20} + \frac{30x}{20} = \frac{120}{20}$ $25x + 8x + 30x = 120$ $63x = 120$ $x = \frac{120}{63}$ $x = \frac{40}{21}$	$\frac{x}{6} + \frac{x}{5} + 3 = x$ $\frac{5x}{30} + \frac{6x}{30} + \frac{90}{30} = \frac{30x}{30}$ $5x + 6x + 90 = 30x$ $5x + 6x - 30x = -90$ $-19x = -90$ $x = \frac{90}{19}$
$\frac{7}{3}x - \frac{3}{5}x - 8 = 4$ $\frac{35x}{15} - \frac{9x}{15} - \frac{120}{15} = \frac{60}{15}$ $35x - 9x - 120 = 60$ $35x - 9x = 60 + 120$ $26x = 180$ $x = \frac{180}{26}$ $x = \frac{90}{13}$	$\frac{1}{4}x + \frac{2}{5}x - 13 = x$ $\frac{5x}{20} + \frac{8x}{20} - \frac{260}{20} = \frac{20x}{20}$ $5x + 8x - 260 = 20x$ $5x + 8x - 20x = 260$ $-7x = 260$ $x = \frac{-260}{7}$
$\frac{x}{6} + \frac{x}{5} + \frac{x}{15} = 39$ $\frac{5x}{30} + \frac{6x}{30} + \frac{2x}{30} = \frac{1170}{30}$ $5x + 6x + 2x = 1170$ $13x = 1170$ $x = \frac{1170}{13}$ $x = 90$	$\frac{1}{10}x + \frac{3}{5}x + 21 = x$ $\frac{x}{10} + \frac{6x}{10} + \frac{210}{10} = \frac{10x}{10}$ $x + 6x + 210 = 10x$ $x + 6x - 10x = -210$ $-3x = -210$ $x = \frac{-210}{-3}$ $x = 70$

