

$5x + 9 = 4x + 3$ $5x + 9 - 9 = 4x + 3 - 9$ $5x = 4x - 6$ $5x - 4x = 4x - 6 - 4x$ $x = -6$	$x^2 = 169$ $x = \sqrt{169} \quad \text{ou} \quad x = -\sqrt{169}$ $x = 13 \quad \text{ou} \quad x = -13$
$(3x + 4)(-2x + 7) = 0$ $3x + 4 = 0 \quad \text{ou} \quad -2x + 7 = 0$ $3x = -4 \quad \text{ou} \quad 7 = 2x$ $x = -\frac{3}{4} \quad \text{ou} \quad x = \frac{7}{2}$	$(2x - 7)(-3x + 1) = -7$ $-6x^2 + 2x + 21x - 7 = -7$ $-6x^2 + 23x - 7 = -7$ $-6x^2 + 23x = 0$ $x(-6x + 23) = 0$ $x = 0 \quad \text{ou} \quad -6x + 23 = 0$ $x = 0 \quad \text{ou} \quad -6x = -23$ $x = 0 \quad \text{ou} \quad x = \frac{-23}{-6} = \frac{23}{6}$
$(x + 3)(5x - 6) - (x + 3)(x + 7) = 0$ $(x + 3)[(5x + 6) - (x + 7)] = 0$ $(x + 3)(5x + 6 - x - 7) = 0$ $(x + 3)(4x - 1) = 0$ $x + 3 = 0 \quad \text{ou} \quad 4x - 1 = 0$ $x = -3 \quad \text{ou} \quad 4x = 1$ $x = -3 \quad \text{ou} \quad x = \frac{1}{4}$	

Résoudre les équations ci-dessous :

$5x - 9 = -3x + 2$ $5x - 9 + 3x = -3x + 2 + 3x$ $8x - 9 = 2$ $8x - 9 + 9 = 2 + 9$ $8x = 11$ $x = \frac{11}{8}$	$x^2 = 121$ $x = \sqrt{121} \quad \text{ou} \quad x = -121$ $x = 11 \quad \text{ou} \quad x = -11$
$(7x - 2)(-2x + 9) = 0$ $7x - 2 = 0 \quad \text{ou} \quad -2x + 9 = 0$ $7x = 2 \quad \text{ou} \quad 9 = 2x$ $x = \frac{2}{7} \quad \text{ou} \quad x = \frac{9}{2}$	$(3x - 11)(-2x + 2) = -22$ $-6x^2 + 6x + 22x - 22 = -22$ $-6x^2 + 28x - 22 = -22$ $-6x^2 + 28x = 0$ $x(-6x + 28) = 0$ $x = 0 \quad \text{ou} \quad -6x + 28 = 0$ $x = 0 \quad \text{ou} \quad 28 = 6x$ $x = 0 \quad \text{ou} \quad \frac{28}{6} = x$ $x = 0 \quad \text{ou} \quad \frac{14}{3} = x$
$(x + 4)(3x - 5) - (x + 4)(2x + 3) = 0$ $(x + 4)[(3x - 5) - (2x + 3)] = 0$ $(x + 4)(3x - 5 - 2x - 3) = 0$ $(x + 4)(x - 8) = 0$ $x + 4 = 0 \quad \text{ou} \quad x - 8 = 0$ $x = -4 \quad \text{ou} \quad x = 8$	