

- 1 $2x + 5 = 0$
- 2 $3x - 6 = 0$
- 3 $-5x + 7 = 0$
- 4 $x + 6 = 11$
- 5 $3x - 8 = 12 - 7x$
- 6 $12x + 9 = 39 - 8x$
- 7 $2x + 8 = \sqrt{3}x$
- 8 $x + \sqrt{3} = 2\sqrt{3}$
- 9 $2x + \sqrt{3} = 3\sqrt{3}$
- 10 $3(x + 2) - 7 = \frac{1}{2}(x - 2)$
- 11 $3x + 38 = x + 50$
- 12 $\sqrt{2}x + 2\sqrt{5} = 3\sqrt{3}$
- 13 $5(2x - 3) - \sqrt{7} = 3(\sqrt{3} - x)$
- 14 $t - 2\sqrt{3} = 3\sqrt{2} - t$
- 15 $2\sqrt{3}x - 3\sqrt{2} = 3\sqrt{2}x - 2\sqrt{3}$
- 16 $13x + 11 = 5x + 17$
- 17 $6x - 4 = 3(3 - 2x)$
- 18 $7x - (4x - 1) = 2x + 7$
- 19 $x - (5 - x) = 3$
- 20 $2x\sqrt{2} + 3 = x\sqrt{3} - 4$
- 21 $5x - 1 = 3x + 2$
- 22 $3 = 5 - 2x$
- 23 $5x - 3 = 3x + 7$
- 24 $5x + 3 = 3x - 2$
- 25 $3(2x + 1) = 2(x + 4)$
- 26 $2(3x - 5) = 2x - 1$
- 27 $2x + 3 = 1$

- 28 $5x - 1 = 2x + 5$
- 29 $\sqrt{3}x - 1 = -x + \sqrt{3}$
- 30 $-3(2x + 1) = x + 2(-x - 2)$
- 31 $(x - \sqrt{3}) - (3x - \sqrt{27}) = 0$
- 32 $t\sqrt{2} + \sqrt{3} = \sqrt{2}(t + 7) + \sqrt{3} - 7\sqrt{2}$
- 33 $x - \frac{2}{3} = \frac{3}{4}$
- 34 $\frac{3}{7}x = 4$
- 35 $\sqrt{2}x - \frac{1}{2} = 0$
- 36 $3x - 6 = 4x + \frac{1}{2}$
- 37 $\frac{x}{2} + \frac{5}{8} = 0$
- 38 $\frac{x}{2} + 4 = \frac{x}{6} + 5$
- 39 $\frac{x+1}{5} + \frac{3x-4}{3} = \frac{4x-7}{15}$
- 40 $\frac{3x+1}{3} - \frac{2x-1}{7} = \frac{5x-9}{21}$
- 41 $\frac{x-6}{3} - \frac{4x-5}{6} = 2$
- 42 $\frac{3x-5}{7} + \frac{1-x}{4} = \frac{2x+3}{28}$
- 43 $\frac{x-1}{3} + \frac{x+1}{4} = \frac{1}{2}$
- 44 $\frac{x+5}{2} + \frac{x-1}{3} = 0$
- 45 $\frac{2x+1}{2} = \frac{3x-2}{5}$
- 46 $\frac{x-3}{3} = \frac{3x-2}{2}$
- 47 $2x + 1 - \frac{x+1}{2} = 3x$
- 48 $\frac{x+2}{2} - 2x = x$
- 49 $\frac{2x+5}{2} - \frac{15-5x}{6} = \frac{1}{2}$
- 50 $\frac{3}{2+x} = \frac{5}{4}$ avec $x \neq -2$
- 51 $\frac{3x}{4} = \frac{2}{3}$
- 52 $\frac{4}{5}x = \frac{2}{3}$

- 53 $\frac{x+3}{2} - \frac{4x-3}{3} = 1 - \frac{5x-12}{6}$
- 54 $2t - 3(t+1) = \frac{1-3t}{2}$
- 55 $\frac{x+7}{4} - \frac{x-1}{6} = \frac{x+2}{3}$
- 56 $(2x-1)(3x+9) = 0$
- 57 $4x^2 - 49 = 0$
- 58 $2x^2 + 4\sqrt{2}x + 4 = 0$
- 59 $x^2 - 6x + 9 = 0$
- 60 $(x+5)(2-x) = 0$
- 61 $(3x+1)(4x-3) = 0$
- 62 $x^2 - 9x = 0$
- 63 $9x^2 - 5x = 0$
- 64 $x(x+1)(x+2) = 0$
- 65 $(2x-3\sqrt{2})^2 = 0$
- 66 $x^2 - 2\sqrt{2}x + 2 = 0$
- 67 $x^2 + 4x = -4$
- 68 $x^2 - 2\sqrt{2}x + 2 = 0$
- 69 $4x^2 + 4x = x^2 - 4x$
- 70 $x^3 - 5x = 0$
- 71 $(2x-1)^2 = (2x-1)(4x+7)$
- 72 $x^2 + 11 = 36$
- 73 $(3x-5)^2 = (x-1)^2$
- 74 $(x-\sqrt{7})(x+9) = 0$
- 75 $2x^2 = \frac{4x-1}{2}$
- 76 $(3x-2)(2x+3) = 0$
- 77 $x^2 + 2x = 0$

- 78 $3x(2-6x)(x-1) = 0$
- 79 $(4x-3)(\sqrt{3}x-2) = 0$
- 80 $(3x+1)(2x-3) = 0$
- 81 $4x^2 - 9 + (2x+3)(x-1) = 0$
- 82 $(x-13)^2 - 36 = 0$
- 83 $(x+6)(3x-4) = 0$
- 84 $4x^2 - 1 + x(2x-1) = 0$
- 85 $(3x-1)^2 - 9 = 0$
- 86 $(x-2)^2(2x-3) = 0$
- 87 $(x+\sqrt{3})^2 = (2x+3)(x+\sqrt{3})$
- 88 $(2x+3)(x+1) + 2x(x+1) = 0$
- 89 $4x^2 - 9 + (2x+3)(x-1) = 0$
- 90 $25x^2 - 3 = 0$
- 91 $(7x-2)^2 = 16$
- 92 $(x-11)^2 + (33-3x)(x+2) = 0$
- 93 $(x-2)^2 - 1 = 0$
- 94 $x^2 - 16x + 64 = 25$
- 95 $x^2 + 12x + 36 = 0$
- 96 $5(x-4) + x(x-4) = 0$
- 97 $9(x+2)^2 - (2x-2)^2 = 0$
- 98 $25x^2 - 10x + 1 = 0$
- 99 $\left(\frac{7}{2}a - 3\right)(5-a) = 0$
- 100 $x^3 + 12x^2 + 36x = 0$
- 101 $(x-2)^2(2x+3) = 0$
- 102 $2x(-x+\sqrt{2})(x\sqrt{3}-1) = 0$

Série des Exercices 3APIC

Inéquations du 1er degré à une inconnue

Résoudre les inéquations suivantes et représenter les solutions sur une droite graduée

- 1 $-2x + 3 > 3x + 6$
- 2 $2x - 5 > x + 1$
- 3 $x - 2 \geq -3x + 4$
- 4 $-15x + 1 \leq 0$
- 5 $7(x - 2) > 8x - 16$
- 6 $3x + 5 \geq 5x - 3$
- 7 $3x - 1 < -2x + 4$
- 8 $5x + 2 < 17$
- 9 $-3x + 5 \geq 20$
- 10 $4x - 5 > 35$
- 11 $-5 - 7x \geq 44$
- 12 $3x - 2 > x + 5$
- 13 $2x - 5 \leq 5x + 7$
- 14 $3(x - 1) - 2(4x - 1) \geq 0$
- 15 $3x - 4 \leq 4(x - 2)$
- 16 $-4(x - 5) > x - 5$
- 17 $12 - 8x + 4(3x - 5) < 2x - 3$
- 18 $9 - 9x - 7 - (9 - 6x) \geq 5x + 8$
- 19 $\frac{3}{4}(8x - 40) > \frac{15}{2}(2x - 4)$
- 20 $\frac{2}{3}x - 3 \leq \frac{3}{2}x + 7$
- 21 $-2(-3 + 5x) \geq 10(x - 2)$
- 22 $3x \leq 2 + 11x$
- 23 $\frac{x}{2} \leq 3 - x$
- 24 $\sqrt{2}x - 5 \geq -x$
- 25 $(1 - \sqrt{3})x - 7 > 0$
- 26 $x - 7 > 2$
- 27 $x + 9 < 4$



- 28 $x + 8 \leq -2x + 5$
- 29 $13 > 8 + x$
- 30 $-3x \geq 7$
- 31 $7x - 3(5 - 2x) \geq 4x - 21$
- 32 $5x - (3x + 4) > 8(3 + 2x)$
- 33 $\frac{3x - 5}{6} - 2 \geq 4x - \frac{3 - x}{12}$
- 34 $-3(x - 2) - (x - 5) > -2x + 7$
- 35 $\frac{2x - 1}{3} - \frac{x}{7} \geq \frac{x - 2}{21}$
- 36 $\frac{x + 2}{2} - \frac{x - 1}{3} > 0$
- 37 $\frac{3x - 2}{2} - \frac{2x - 1}{3} \leq \frac{x + 3}{6}$
- 38 $\frac{x + 1}{3} \leq \frac{14 - x}{6}$
- 39 $\frac{2x + 3}{9} - \frac{3x - 5}{6} \leq 2x - \frac{4 + x}{3}$
- 40 $\frac{3}{1 - 3x} \geq \frac{2}{1 + 2x}$
- 41 $\frac{x}{4} - 3 \leq x\sqrt{3} + 2\sqrt{5}$
- 42 $\frac{3}{x} \geq -1$
- 43 $x + 4 \geq 2$
- 44 $2x - \frac{1}{3} \leq 3x - \frac{1}{4}$
- 45 $3(x + 1) + 4 < -7$
- 46 $7(-5x + 4) \leq -3(x - 7) + 32$
- 47 $\left(\frac{8}{15}x + 1\right) - \left(15 + \frac{4}{3}x\right) > -10$
- 48 $5x \leq 5x - 2$
- 49 $5x \leq 5x + 2$
- 50 $3x + 9 \geq 9 + 3x$
- 51 $\sqrt{11}x - 3 < 4 - \sqrt{6}x$
- 52 $3x - \sqrt{3} < x - 1$



- 53 $x\sqrt{7} - 3 \geq x\sqrt{10} + \sqrt{3}$
- 54 $3x + 2 \geq 0$
- 55 $-4x - 1 > 0$
- 56 $7x - 1 \leq 9 + \sqrt{2}x$
- 57 $\sqrt{5}x + 1 > 3 + 3x$
- 58 $-4x + 5 \leq 3(-x + 8) - x - 13$
- 59 $\frac{3 + 2x}{6} - \frac{3 + x}{4} < 0$
- 60 $\frac{2x + 1}{4} > \frac{-5x + 4}{5} + \frac{3x}{2}$
- 61 $5x - 1 \geq 3$
- 62 $2x + 1 < \sqrt{7}$
- 63 $2 \leq 7 - 5x$
- 64 $7(x - 1) \geq x - 7$
- 65 $2x + 4 < 5x - 7$
- 66 $3x + 2(5 - x) \leq -2x + 1$
- 67 $3(-x + 1) - 4(2x - 4) \geq 5$
- 68 $214(3x - 5) > 214(2x + 1)$
- 69 $3x + 2 < x + 2$
- 70 $2(x + 8) \leq 3 - 3(8 - 2x)$
- 71 $(x + 1)^2 + 4 \geq x^2 + 1$
- 72 $\sqrt{5}x + 1 > 3 + 3x$
- 73 $7x - 1 \leq 9 + \sqrt{2}x$
- 74 $-4x - 1 > 0$
- 75 $3x + 2 \geq 0$
- 76 $\frac{2x + 1}{4} > \frac{-5x + 4}{5} + \frac{3x}{2}$
- 77 $\frac{3 + 2x}{6} - \frac{3 + x}{4} < 0$

- 78 $-4x + 5 \leq 3(-x + 8) - x - 13$
- 79 $7x - 5 \leq 3$
- 80 $2x - 5 \geq -3\sqrt{3}$
- 81 $7(2x - 3) - \sqrt{7} < 3(\sqrt{3} - x)$
- 82 $9x - 13 \leq 11(3x - 4)$
- 83 $t - 2\sqrt{3} \leq 3\sqrt{2} - t$
- 84 $\frac{6t - 7}{5} + \frac{2t + 3}{3} > 4$
- 85 $\frac{2y - 3}{21} - \frac{9 - 2y}{7} \leq \frac{5y + 11}{3}$
- 86 $\frac{3x - 1}{2} - \frac{x + 1}{3} < 2x + 1$
- 87 $\frac{x}{2} + \frac{1 - 3x}{4} < 1$
- 88 $\frac{x + 1}{3} - \frac{3x + 5}{6} > \frac{4}{3}$
- 89 $\frac{2x + 1}{3} - 2 \leq \frac{x - 1}{6}$
- 90 $x + \frac{x - 2}{4} > \frac{2 - x}{6}$
- 91 $x^2 - 2\sqrt{3} + 3 > 0$
- 92 $4(x + 3) - 2(x + 1) \geq 2x + 10$
- 93 $-x + \frac{1}{3} \leq -\frac{1}{3}x + 3$
- 94 $4(x - 1) - 2(-3x + 2) > 2(5x - 1)$
- 95 $x^2 + 3x - 1 < x(x - 2) + 4$
- 96 $2x + 8 < \sqrt{5}(x + \sqrt{5})$
- 97 $3 - (2x + 1) \leq 3x + 1$
- 98 $\sqrt{7}(x - 1) > \sqrt{5}(x + 1)$

Résoudre les systèmes d'inéquations suivants:

- 99 $\begin{cases} -3x + 4 > -2 \\ 4x - 5 \geq -3 \end{cases}$
- 100 $\begin{cases} 5x + 2 < 2x - 3 \\ 4x - 5 > 3x - 4 \end{cases}$