Disequazioni semplici

72 $(x-1)(x+1) - (x-3)^2 < 3$ $\left[x < \dfrac{13}{6} \right]$

73 $(x-1)^2 - 3x < (x-3)(x+3)$ $[x > 2]$

74 $4(5x-1) + 2(3x+1)^2 > 3x(6x+5) - 2x - 3$ $\left[x > -\dfrac{1}{19} \right]$

75 $(2x-1)^2 - 3(2+x) \leq (2x+3)(2x-3) + 2(x+3)$ $\left[x \geq -\dfrac{2}{9} \right]$

76 $4(2x-1) - x + (2x-1)^2 > 4(x-2)^2 - 12(x-1)$ $[x > 1]$

77 $(3x-1)(3x+1) - \left(1 - \dfrac{1}{2}x\right)^2 + \dfrac{1}{4}(x+1)^2 - 9x^2 < 0$ $\left[x < \dfrac{7}{6} \right]$

Disequazioni fratte

112 $\dfrac{10}{7x} > \dfrac{5}{14}$ $[0 < x < 4]$

113 $\dfrac{2}{x} < \dfrac{4}{3x}$ $[x < 0]$

114 $\dfrac{6x}{x-1} < 1$ $\left[-\dfrac{1}{5} < x < 1 \right]$

115 $\dfrac{x+1}{x-1} > \dfrac{3}{4}$ $[x < -7 \lor x > 1]$

121 $1 - \dfrac{3}{x+2} < \dfrac{3x}{6+3x}$ $[x > -2]$

122 $\dfrac{x-3}{2x-1} + 1 \leq \dfrac{3}{2}$ $\left[x > \dfrac{1}{2} \right]$

123 $\dfrac{x-1}{2x} \cdot \dfrac{1}{2x-2} \leq 2$ $\left[x < 0 \lor x \geq \dfrac{1}{8} \land x \neq 1 \right]$

124 $\dfrac{6+(3-x)^2}{x+2} - 1 \geq \dfrac{2-x^2}{-x-2}$ $\left[-2 < x < \dfrac{15}{7} \right]$

Sistemi di disequazioni

168 $\begin{cases} 6x - 1 + 2x(x-2) - x^2 \geq x^2 + 1 \\ 2x - 6 > x + 1 \end{cases}$ $[x > 7]$

169 $\begin{cases} \dfrac{1}{2}(2+x) - 1 > -\dfrac{1}{3}(x-1) \\ \dfrac{1}{5}(x+10) < \dfrac{1}{3}(x+6) \end{cases}$ $\left[x > \dfrac{2}{5} \right]$

170 $\begin{cases} 2x(x-1) - x^2 + x - 3 \leq x(x-2) + 7 \\ 2x + 3 - x + x^2 > x(x+2) - 3 \end{cases}$ $[x < 6]$

Disequazioni di 2° grado

205 $\dfrac{x^2 + 4x - 5}{2x - 3} < 0$ $\qquad \left[x < -5 \; \lor \; 1 < x < \dfrac{3}{2} \right]$

206 $\dfrac{x^2 - 2x + 1}{6x} > 0$ $\qquad [x > 0, \; x \neq 1]$

207 $\dfrac{2x - 8}{(2x - 1)\left(x + \dfrac{1}{2}\right)} \geq 0 \left[-\dfrac{1}{2} < x < \dfrac{1}{2} \; \lor \; x \geq 4 \right]$

228 $3 - x \geq \dfrac{4}{x + 2}$ $\qquad [x < -2 \; \lor \; -1 \leq x \leq 2]$

229 $x \leq \dfrac{6}{x - 1}$ $\qquad [x \leq -2 \; \lor \; 1 < x \leq 3]$

230 $4 - x > \dfrac{10}{x + 3}$ $\qquad [x < -3 \; \lor \; -1 < x < 2]$