

- 862  $\frac{\sqrt{x+1}-4}{x-\sqrt{x^2-2x}} \geq 0$   $[-1 \leq x < 0 \vee x \geq 15]$
- 863  $\frac{x^2+2x-4}{\sqrt[3]{x-1}-1} \leq 0$   $[x \leq -1-\sqrt{5} \vee -1+\sqrt{5} \leq x < 2]$
- 864  $\frac{(x+2)\sqrt{x}}{\sqrt{x^2+3}-x-1} \geq 0$   $[0 < x \leq 1]$
- 865  $x\sqrt{x-2}\sqrt{x+1} \geq 0$   $[0 \leq x \leq \frac{3-\sqrt{5}}{2} \vee x \geq 1]$
- 866  $\sqrt[3]{x-3}-\sqrt{x-1} \leq 0$   $[x \geq 1]$
- 867  $\sqrt{x}-\frac{\sqrt{x+2}}{2} < \sqrt{x+2}$   $[x \geq 0]$
- 868  $\sqrt{2x^2+1} > \sqrt{x^2-4x+3}$   $[x < -2-\sqrt{6} \vee -2+\sqrt{6} < x \leq 1 \vee x \geq 3]$
- 869  $x\sqrt{x^2+1} \geq x^2+2$  [Impossibile]
- 870  $\frac{\sqrt{x-1}+\sqrt{x^2-1}}{x^2+5x} \geq 0$   $[x \geq 1]$
- Risolvi le seguenti disequazioni con valori assoluti.**
- 871  $|x+1| < 6$   $[-7 < x < 5]$
- 872  $\left| \frac{1}{2}x-1 \right| \geq 2$   $[x \leq -2 \vee x \geq 6]$
- 873  $|x^2-1| \leq \sqrt{2}-2$  [Impossibile]
- 874  $|x^2-2x| > 3x$   $[x < 0 \vee x > 5]$
- 875  $|x^2-3| > 6$   $[x < -3 \vee x > 3]$
- 876  $|3x-1| > 2x-1$   $[x \in \mathbb{R}]$
- 877  $|x+1| \geq 2x-|x-1|$   $[x \in \mathbb{R}]$
- 878  $|x-1|+|x-2| > 3x$   $\left[ x < \frac{5}{3} \right]$
- 879  $||x+1|-x| \leq 3$   $[x \geq -2]$
- 880  $(|x-1|^2-|x-1|-1) \leq 0$   $[-3 \leq x \leq 3]$
- 881  $|x^3-1| \geq 0$   $[x \leq -1 \vee 1 \leq x < 3]$
- 882  $\frac{|x-1|-1}{x^2-4x} < 0$   $[x < 2 \vee x > 4, \text{ con } x \neq 0]$
- 883  $\frac{1}{|x|} \leq |x+4|$   $[x \leq -2-\sqrt{5} \vee -2-\sqrt{3} \leq x \leq -2+\sqrt{3} \vee x \geq -2+\sqrt{5}]$
- 884  $\frac{|x-1|-2}{4-x} \geq 0$   $[x \leq -1 \vee 3 \leq x < 4]$
- 885  $\frac{2|x-1}{3-x^2} > 0$   $\left[ x < -\sqrt{3} \vee -\frac{1}{2} < x < \frac{1}{2} \vee x > \sqrt{3} \right]$
- 886  $\frac{2x-|x-1|}{|x|-2} \geq 0$   $[-2 < x \leq \frac{3}{1} \vee x > 2]$
- 887  $\frac{1}{|x|} - \frac{|x-2|}{1} \geq 2$   $\left[ 1-\sqrt{2} \leq x \leq \frac{3-\sqrt{5}}{2}, \text{ con } x \neq 0 \right]$

- 888  $\frac{1}{|x|} - \frac{|x-2|}{1} \geq 2$   $[-3 \leq x < 1]$
- 889  $\frac{x^2+4}{\sqrt{x+4}-1} \leq 0$   $\left[ x < -2 \vee x > -\frac{4}{3} \right]$
- 890  $-\sqrt{3} \leq x \leq 1 \vee x \geq \sqrt{2}$   $[x \in \mathbb{R}]$
- 891  $\sqrt{x^3+3} \geq x+1$   $\left[ \sqrt{x} \leq \frac{2}{1} \right]$
- 892  $\sqrt{\frac{x}{x+2}} < 1 - \frac{x+2}{2}$   $[x < -2]$
- 893  $x \leq \frac{2}{1}$   $[x \leq -1 \vee 1 \leq x \leq \frac{3}{5}]$
- 894  $-\frac{2}{3} \leq x \leq \frac{2}{3}$   $[-\sqrt{x^2-1} \leq (x-1)^2 - (x-1)(x+1)]$
- 895  $(x-1)^2 - \sqrt{x^2+4x+5} \geq (x+1)^2 - 3x$   $\left[ x \leq -\frac{4}{5} \right]$
- 896  $\sqrt{2x^2-x-1} + 1 \geq x$   $\left[ x \leq -\frac{2}{1} \vee x \geq 1 \right]$
- 897  $\sqrt{x^2+2x} \geq 3x$   $[x \leq -2 \vee 0 \leq x \leq \frac{4}{1}]$
- 898  $-\sqrt{x^2-2x} \geq 2\sqrt{2}$  [Impossibile]
- 899  $\sqrt{x^2+3x+2} \leq x+2$   $[x = -2 \vee x \geq -1]$
- 900  $\sqrt{x-1}-x < -1$   $[x > 2]$
- 901  $\sqrt{2x-1} < x-1$   $[x > 2 + \sqrt{2}]$
- Risolvi le seguenti disequazioni irrazionali.**
- 902  $x^6-3x^3+2 \geq 0$   $[x \leq 1 \vee x \geq \sqrt{2}]$
- 903  $\frac{x^3+2x^2-x-2}{x} + \frac{x^2+x-2}{1} \geq \frac{x^2+3x+2}{3}$   $[x < -1 \vee 0 \leq x < 2 \vee 3 < x \leq 5]$
- 904  $\frac{1}{1} + \frac{x+1}{1} + \frac{x-2}{3} \leq \frac{x^2-5x+6}{3}$   $[x < 0]$
- 905  $\frac{x^2+2x-3}{x} \leq \frac{x-1}{3}$   $\left[ -\frac{2}{9} \leq x < -3 \vee x > 1 \right]$
- 906  $\left[ \frac{1+\sqrt{17}}{2} \leq x < 0 \vee 1 < x < \frac{\sqrt{17}-1}{2} \right]$
- 907  $\frac{1}{x} + \frac{x-1}{3} \leq \frac{x^2-x}{3}$   $[x < 0]$
- 908  $\frac{x^2-5x+9}{x^2} < 0$   $[x < 0]$
- 909  $\frac{x^2-2x}{1} \geq \frac{3x}{1}$   $[x < 0 \vee 2 < x \leq 5]$
- 910  $\frac{x^2-1}{x^2} < 0$   $[x < -2 \vee -1 < x < 1 \vee x > 2]$
- 911  $\frac{1}{x-1} > 1$   $[0 < x < 1]$
- 912  $\frac{x^2(x+4)^2}{3} \leq 0$   $[0 < x \leq 1]$