

DISEQUAZIONI

Risolvere le seguenti disequazioni:

$$(x+5)(x-5) \geq 0$$

$$\frac{x-2}{x+3} > 0$$

$$\frac{x+3}{x-2} < 1$$

$$\frac{x^2-1}{x-2} > 0$$

$$\frac{(x-2)(x+1)}{x+7} < 0$$

$$x^2(x-1) \geq 0$$

$$x(x-7)^2 < 0$$

$$(x-5)(x+10) \leq 0$$

$$-x^2-4x-5 > 0$$

$$\frac{3x+1}{x-1} < \frac{2(x+1)}{x-2}$$

$$|x| > x$$

$$|x-5| < |x+1|$$

$$\|x+4\| < 1 \quad |x+2| > |x-1|$$

$$\frac{3-x}{|x+1|} \leq 2x$$

$$\frac{|x+1|(x-2)}{x+3} > x$$

$$\left| \frac{3x-2}{x+3} \right| \leq 0$$

$$\left| \frac{x}{x-1} \right| < 2+x$$

$$\sqrt{x+|x|} \geq 3-x$$

$$\sqrt{x^2-4} \leq 1-x$$

$$1-|x| < \sqrt{x}$$

$$1-|x| < \sqrt{x^2} \quad |1-|x|| \geq 1$$

$$\sqrt[7]{x^2-2x} \leq x$$

$$|x^2+4| \geq x$$

$$\sqrt{x+\frac{1}{2}} \leq \sqrt[3]{-x-\frac{1}{2}}$$

$$\sqrt{x^2-8x+25} > -x+9$$

$$x\sqrt[3]{x} < 0$$

$$\sqrt[4]{x+3} \leq -\sqrt{x^2+3x}$$

$$5^{2x}+5^x-5 \geq 0$$

$$2\sin^2 x - \cos x - 1 > 0$$

$$\sin^2 x + \frac{3}{2} \cos x - 2 > 0$$

$$3^x \geq 2$$

$$\lg_{10} \left(\frac{1}{3} - x \right) \geq 0$$

$$\cos^2 x \sin 2x > 0$$

$$|x^2+1| \geq \sin^2 x$$

$$\frac{\sqrt{x-2}}{\sqrt{x-1}} > 0$$

$$\sqrt{\frac{x-2}{x-1}} > 0$$

$$\frac{\sqrt{x+1}}{\sqrt[3]{-3x+1}} < \sqrt[6]{|-3x+1|}$$

$$\sqrt[5]{x^2-2x} \leq |x|$$

$$\left| \frac{\cos 2x}{\sin x} \right| < 1$$

$$\sqrt{\lg_{10}(x^2-1)} > \sqrt{\lg_{10}(2x-1)}$$

$$\sqrt{\sin^2 x - 2 \sin x + 1} > \sin 2x$$

$$\sqrt{\lg x} \geq \sqrt{|x|}$$

$$2^{\sin x} \leq \sqrt{2}$$

$$\sin(\arcsin x) > \cos x$$

Risolvere le seguenti disequazioni al variare del parametro $t \in \mathbb{R}$

$$x^2 + |tx| \geq x$$

$$x + \sqrt{t|x|} \geq t$$

$$|2t-x| > \frac{1}{x}$$

$$tx^2 - \sqrt{t}|x| \leq t$$

$$(t^2+t+3)x^2+2tx+1 \leq 0$$

$$2kx^2-x+2k \geq 0$$

$$x^2+t < 0$$