

FORMULARIO DISUGUAGLIAMENTI IRRAZIONALI

CON UN SOLO RADICALE

$$\sqrt{f(x)} > g(x) \rightarrow \begin{cases} f(x) \geq 0 \\ g(x) < 0 \end{cases} \cup \begin{cases} g(x) \geq 0 \\ f(x) > [g(x)]^2 \end{cases}$$

$$\sqrt{f(x)} \geq g(x) \rightarrow \begin{cases} f(x) \geq 0 \\ g(x) < 0 \end{cases} \cup \begin{cases} g(x) \geq 0 \\ f(x) \geq [g(x)]^2 \end{cases}$$

$$\sqrt{f(x)} < g(x) \rightarrow \begin{cases} f(x) \geq 0 \\ g(x) > 0 \\ f(x) < [g(x)]^2 \end{cases}$$

$$\sqrt{f(x)} \leq g(x) \rightarrow \begin{cases} f(x) \geq 0 \\ g(x) > 0 \\ f(x) \leq [g(x)]^2 \end{cases}$$

CON DUE RADICALI

$$\sqrt{f(x)} > \sqrt{g(x)} \rightarrow \begin{cases} f(x) \geq 0 \\ g(x) \geq 0 \\ f(x) > g(x) \end{cases}$$

$$\sqrt{f(x)} \geq \sqrt{g(x)} \rightarrow \begin{cases} f(x) \geq 0 \\ g(x) \geq 0 \\ f(x) \geq g(x) \end{cases}$$

$$\sqrt{f(x)} < \sqrt{g(x)} \rightarrow \begin{cases} f(x) \geq 0 \\ g(x) \geq 0 \\ f(x) < g(x) \end{cases}$$

$$\sqrt{f(x)} \leq \sqrt{g(x)} \rightarrow \begin{cases} f(x) \geq 0 \\ g(x) \geq 0 \\ f(x) \leq g(x) \end{cases}$$

CASI PARTICOLARI

$$\sqrt{f(x)} > 0 \rightarrow f(x) > 0$$

$$\sqrt{f(x)} \geq 0 \rightarrow f(x) \geq 0$$

$$\sqrt{f(x)} < 0 \rightarrow \text{IMPOSSIBILE}$$

$$\sqrt{f(x)} \leq 0 \rightarrow f(x) = 0$$

$$\sqrt{f(x)} > \text{NUMERO} \rightarrow f(x) > (\text{NUMERO})^2$$

$$\sqrt{f(x)} \geq \text{NUMERO} \rightarrow \sqrt{f(x)} \geq (\text{NUMERO})^2$$

$$\sqrt{f(x)} < \text{NUMERO} \rightarrow \begin{cases} f(x) \geq 0 \\ f(x) < \text{NUMERO} \end{cases}$$

$$\sqrt{f(x)} \leq \text{NUMERO} \rightarrow \begin{cases} f(x) \geq 0 \\ f(x) \leq (\text{NUMERO})^2 \end{cases}$$