

DISEQUAZIONI DI II GRADO

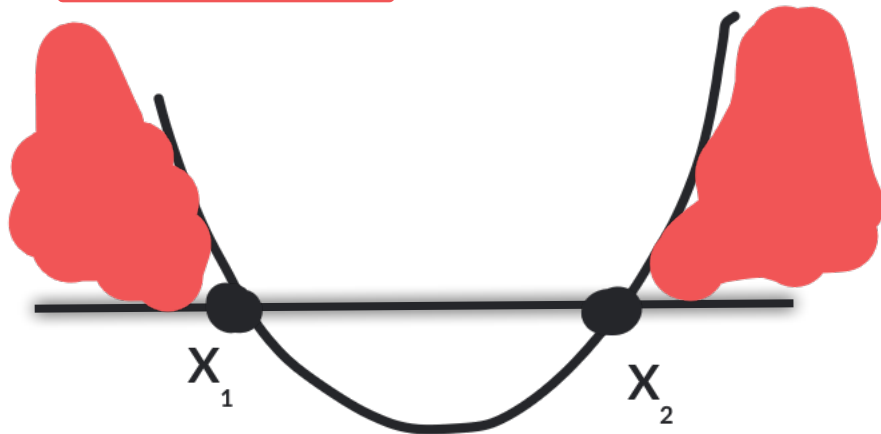
$$ax^2 + bx + c \begin{matrix} \geq \\ \leq \end{matrix} 0 \quad \text{Segno}$$

1) si risolve l'equazione associata (vedi schema) e quindi il delta

$$\Delta > 0$$

$$\begin{matrix} \geq \\ \leq \end{matrix} 0$$

$$> 0$$

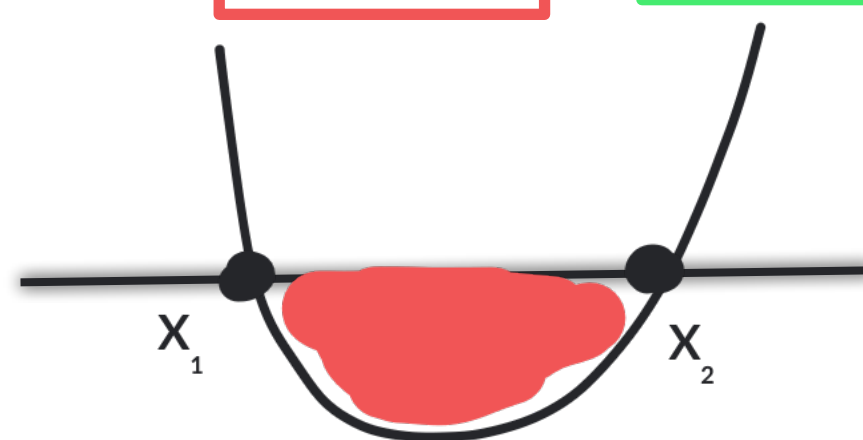


$$x \leq x_1 \wedge x \geq x_2$$

$$x < x_1 \wedge x > x_2$$

$$\begin{matrix} < \\ \leq \end{matrix} 0$$

$$< 0$$



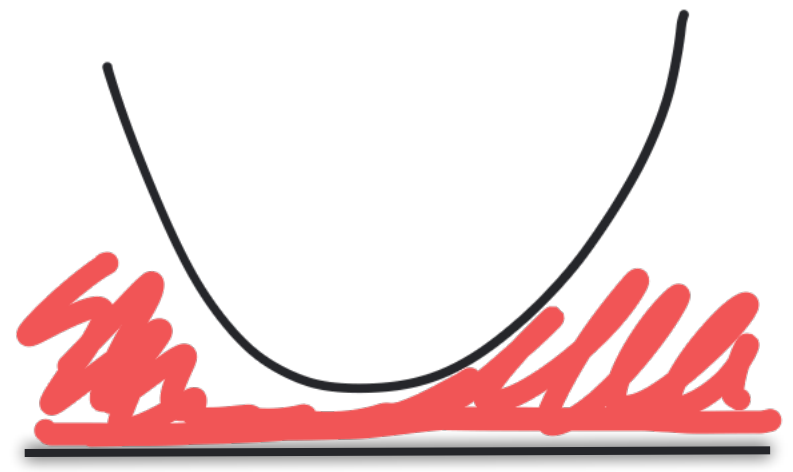
$$x_1 \leq x \leq x_2$$

$$x_1 < x < x_2$$

$$\Delta < 0$$

$$\text{Segno } \geq 0 > 0$$

$$\text{Segno } \leq 0 < 0$$

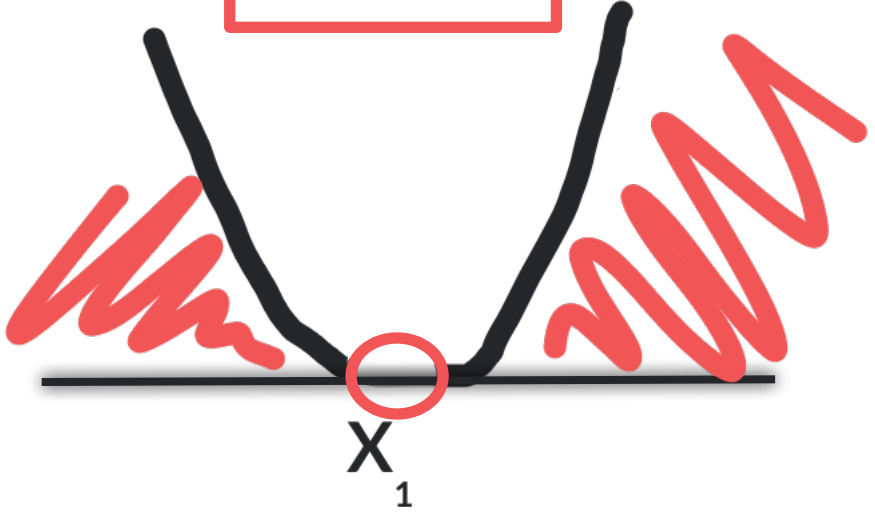


$\forall x \in R$
(Infinite soluzioni)

$\nexists x \in R$
(Nessuna soluzione)

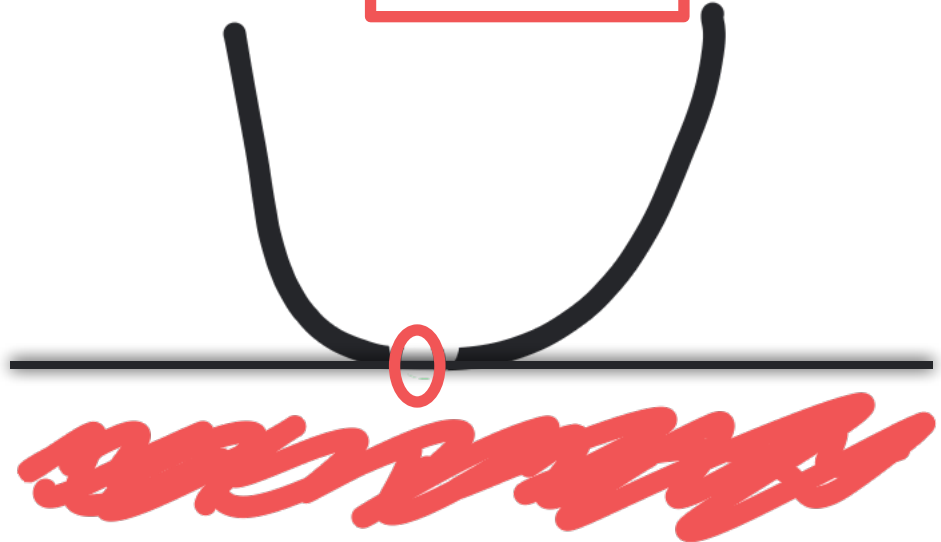
$$\Delta = 0$$

$$> 0$$



$R - \{x_1\}$

$$< 0$$



$\nexists x \in R$

$$\geq 0$$

$$\forall x \in R$$

$$\leq 0$$

$$x = x_1$$