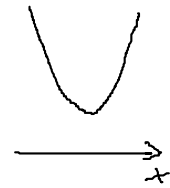
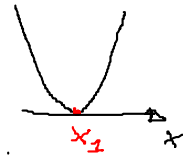
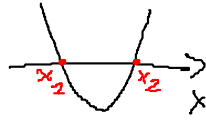


$$\Delta > 0$$

$$\Delta = 0$$

$$\Delta < 0$$

$$a > 0$$



$$ax^2 + bx + c > 0$$

$$x < x_1 \vee x > x_2$$

$$\forall x \in \mathbb{R} \setminus \{x_1\}$$

$$\forall x \in \mathbb{R}$$

$$ax^2 + bx + c \geq 0$$

$$x \leq x_1 \vee x \geq x_2$$

$$\forall x \in \mathbb{R}$$

$$\forall x \in \mathbb{R}$$

$$ax^2 + bx + c < 0$$

$$x_1 < x < x_2$$

$$\exists x \in \mathbb{R}$$

$$\exists x \in \mathbb{R}$$

$$ax^2 + bx + c \leq 0$$

$$x_1 \leq x \leq x_2$$

$$x = x_1$$

$$\exists x \in \mathbb{R}$$