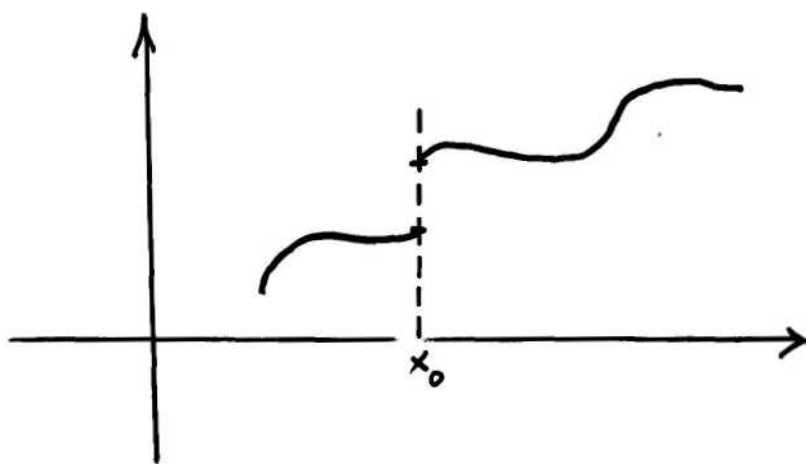


$$\left[ x_0 \text{ DISCONTINUITÀ DI 1}^{\text{a}} \text{ SPECIE} \right] \xLeftrightarrow{\text{DEF}} \left[ \exists l, L \in \mathbb{R}: \lim_{x \rightarrow x_0^-} f(x) = l \neq L = \lim_{x \rightarrow x_0^+} f(x) \right]$$

$$s(x_0) = L - l \quad \text{SALTO DI DISCONTINUITÀ}$$



PROVINGABILE PER CONTINUITÀ A SIN. E A DES., MA NON IN  $x_0$ .

ES. 4. -

$$\text{sgn}: x \in ]-\infty, +\infty[ \rightarrow \text{sgn } x = \begin{cases} 1 & \text{se } x > 0 \\ 0 & \text{se } x = 0 \\ -1 & \text{se } x < 0 \end{cases}$$

$$\lim_{x \rightarrow 0^-} \text{sgn } x = -1 \neq 1 = \lim_{x \rightarrow 0^+} \text{sgn } x$$

□