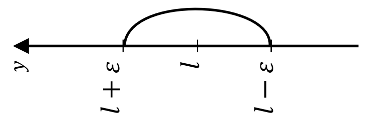
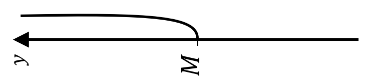
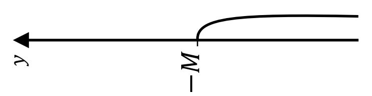
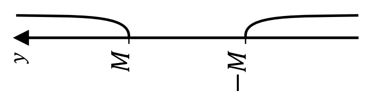
Definizione di limite

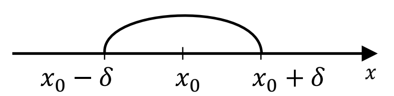
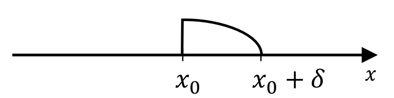
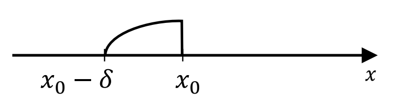
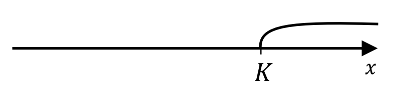
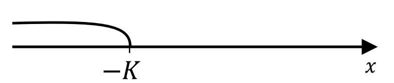
$$\lim_{x \to \square} f(x) = \Delta$$

$$\forall\, I_{\Delta} \qquad \exists\, I_{\square} \qquad t.c. \qquad \begin{cases} x \in I_{\square} \\ x \neq \square \end{cases} \quad \Rightarrow \quad f(x) \in I_{\Delta}$$

Per ogni intorno di Δ, esiste un intorno di □ tale che:
se x appartiene a questo intorno di □ (ad eccezione di □), allora la sua immagine $f(x)$ appartiene all'intorno di Δ.

A seconda dei casi ↓, puoi sostituire queste → scritture con…	$\forall\, I_{\Delta}$	$f(x) \in I_{\Delta}$	
$\Delta = l$	$\forall\, \varepsilon > 0$	$l - \varepsilon < f(x) < l + \varepsilon$ oppure $\lvert f(x) - l \rvert < \varepsilon$	
$\Delta = +\infty$	$\forall\, M > 0$	$f(x) > M$	
$\Delta = -\infty$	$\forall\, M > 0$	$f(x) < -M$	
$\Delta = \infty$	$\forall\, M > 0$	$f(x) < -M \lor f(x) > M$ oppure $\lvert f(x) \rvert > M$	

ruota il foglio di 90° per osservare queste figure

A seconda dei casi ↓, puoi sostituire queste → scritture con…	$\exists\, I_{\square}$	$x \in I_{\square}$	
$\square = x_0$	$\exists\, \delta > 0$	$x_0 - \delta < x < x_0 + \delta$ oppure $\lvert x - x_0 \rvert < \delta$	
$\square = x_0^+$	$\exists\, \delta > 0$	$x_0 < x < x_0 + \delta$	
$\square = x_0^-$	$\exists\, \delta > 0$	$x_0 - \delta < x < x_0$	
$\square = +\infty$	$\exists\, K > 0$	$x > K$	
$\square = -\infty$	$\exists\, K > 0$	$x < -K$	
$\square = \infty$	$\exists\, K > 0$	$x < -K \lor x > K$ oppure $\lvert x \rvert > K$