Scrivere il significato (= la definizione) delle seguenti uguaglianze. I simboli f, x_0, ℓ, quando sono presenti, denotano rispettivamente una funzione reale definita in un insieme $A \subseteq \mathbf{R}$, un punto di accumulazione per A, un numero reale.

$\lim_{x \to x_0} f(x) = \ell$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|f(x) - \ell\| < \varepsilon \;\; \forall x \in (]x_0 - \delta, x_0 + \delta[\setminus \{x_0\}) \cap A$
$\lim_{x \to x_0} f(x) = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|f(x)\| < \varepsilon \;\; \forall x \in (]x_0 - \delta, x_0 + \delta[\setminus \{x_0\}) \cap A$
$\lim_{x \to 0} f(x) = \ell$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|f(x) - \ell\| < \varepsilon \;\; \forall x \in (]-\delta, \delta[\setminus \{0\}) \cap A$
$\lim_{x \to 0} f(x) = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|f(x)\| < \varepsilon \;\; \forall x \in (]-\delta, \delta[\setminus \{0\}) \cap A$
$\lim_{x \to x_0} \|f(x)\| = \ell$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|\|f(x)\| - \ell\| < \varepsilon \;\; \forall x \in (]x_0 - \delta, x_0 + \delta[\setminus \{x_0\}) \cap A$
$\lim_{x \to x_0} \|f(x)\| = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|f(x)\| < \varepsilon \;\; \forall x \in (]x_0 - \delta, x_0 + \delta[\setminus \{x_0\}) \cap A$
$\lim_{x \to 0} \|f(x)\| = \ell$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|\|f(x)\| - \ell\| < \varepsilon \;\; \forall x \in (]-\delta, \delta[\setminus \{0\}) \cap A$
$\lim_{x \to 0} \|f(x)\| = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|f(x)\| < \varepsilon \;\; \forall x \in (]-\delta, \delta[\setminus \{0\}) \cap A$
$\lim_{x \to 0} \mathrm{sen} x = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|\mathrm{sen} x\| < \varepsilon \;\; \forall x \in]-\delta, \delta[\setminus \{0\}$
$\lim_{x \to 0} \cos x = 1$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|\cos x - 1\| < \varepsilon \;\; \forall x \in]-\delta, \delta[\setminus \{0\}$
$\lim_{x \to \frac{\pi}{6}} \cos x = \frac{\sqrt{3}}{2}$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \left\|\cos x - \frac{\sqrt{3}}{2}\right\| < \varepsilon \;\; \forall x \in]\frac{\pi}{6} - \delta, \frac{\pi}{6} + \delta[\setminus \{\frac{\pi}{6}\}$
$\lim_{x \to 0} e^x = 1$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|e^x - 1\| < \varepsilon \;\; \forall x \in]-\delta, \delta[\setminus \{0\}$
$\lim_{x \to 1} \mathrm{arcsen} x = \frac{\pi}{2}$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \left\|\mathrm{arcsen} x - \frac{\pi}{2}\right\| < \varepsilon \;\; \forall x \in]1 - \delta, 1[$
$\lim_{x \to -1} \arccos x = \pi$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|\arccos x - \pi\| < \varepsilon \;\; \forall x \in]-1, -1 + \delta[$
$\lim_{x \to 1} \mathrm{arctg} x = \frac{\pi}{4}$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \left\|\mathrm{arctg} x - \frac{\pi}{4}\right\| < \varepsilon \;\; \forall x \in]1 - \delta, 1 + \delta[\setminus \{1\}$
$\lim_{x \to 0} x^2 = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; x^2 < \varepsilon \;\; \forall x \in]-\delta, \delta[\setminus \{0\}$
$\lim_{x \to 1} \log x = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|\log x\| < \varepsilon \;\; \forall x \in]1 - \delta, 1 + \delta[\setminus \{1\}$
$\lim_{x \to 1} \|\log x\| = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|\log x\| < \varepsilon \;\; \forall x \in]1 - \delta, 1 + \delta[\setminus \{1\}$
$\lim_{x \to 0} \|\mathrm{sen} x\| = 0$	$\forall \varepsilon > 0 \; \exists \delta > 0 \; : \; \|\mathrm{sen} x\| < \varepsilon \;\; \forall x \in]-\delta, \delta[\setminus \{0\}$