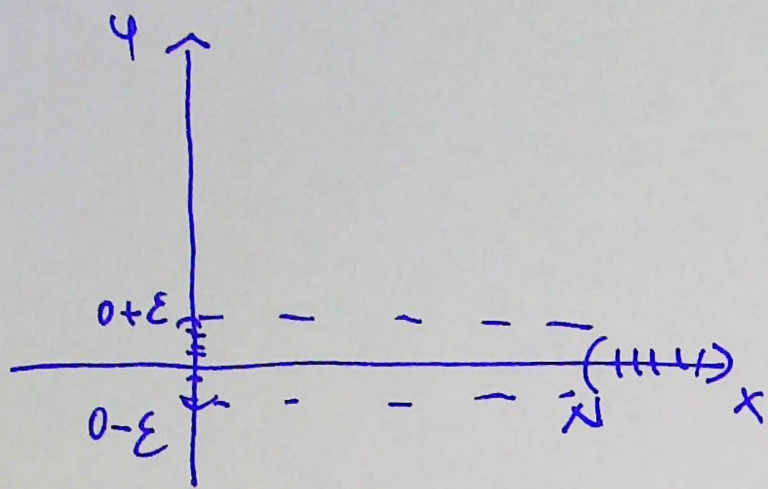


3) $\lim_{x \rightarrow +\infty} \frac{2}{x+10} = 0$

(2)

$\forall \varepsilon > 0 \exists N > 0 / \forall x > N$



$|f(x) - 0| < \varepsilon$

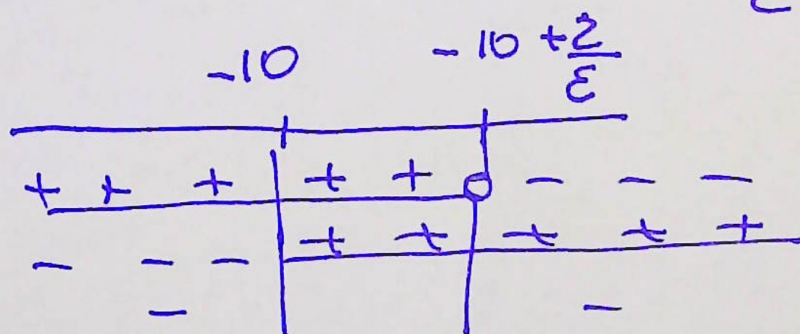
$\left| \frac{2}{x+10} \right| < \varepsilon$

$- \varepsilon < \frac{2}{x+10} < \varepsilon$

$\begin{cases} \frac{2}{x+10} < \varepsilon \\ \frac{2}{x+10} > -\varepsilon \end{cases} \Rightarrow \begin{cases} \frac{2 - \varepsilon x - 10\varepsilon}{x+10} < 0 & (1) \\ \frac{2 + \varepsilon x + 10\varepsilon}{x+10} > 0 & (2) \end{cases} \Rightarrow \begin{cases} x < -10 + \frac{2}{\varepsilon} \\ x < -10 - \frac{2}{\varepsilon} \vee x > -10 \end{cases}$

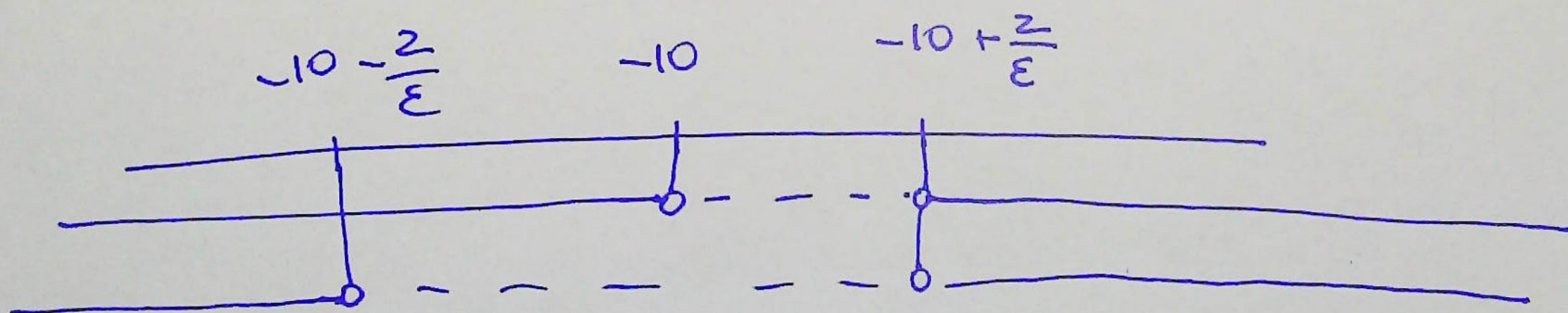
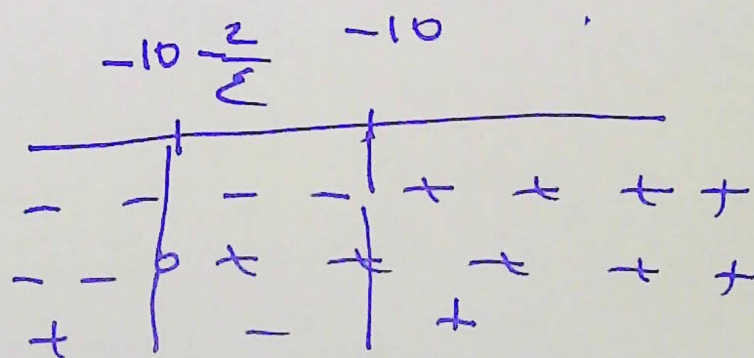
(1) $N > 0 \quad -\varepsilon x > 10\varepsilon - 2 \quad \varepsilon x < 2 - 10\varepsilon \quad x < \frac{2}{\varepsilon} - 10$

$D > 0 \quad x > -10$



(2) $\varepsilon x > -10\varepsilon - 2 \quad x > -10 - \frac{2}{\varepsilon}$

$x > -10$



$x < -10 - \frac{2}{\varepsilon}$

$I(-\infty)$

$x > -10 + \frac{2}{\varepsilon}$

$I(+\infty)$

LIMITE VERIFICATO