

常用數學符號的中文解釋

\forall : For any, (對於任意的)

\exists : There exists (存在)

$\exists!$: There exists a unique... (存在唯一的...)

極限的定義: $\lim_{x \rightarrow c} f(x) = L$

$\forall \epsilon > 0, \exists \delta > 0$, such that " $0 < |x - c| < \delta$ implies $|f(x) - L| < \epsilon$ " (Given $\epsilon > 0$) (we can find $\delta > 0$)

給定任意 $\epsilon > 0$, 存在有 $\delta > 0$, 使得

"當 $0 < |x - c| < \delta$ 時, $|f(x) - L| < \epsilon$ 成立"

iff: if and only if; 若且唯若, "iff" \iff

Example:

$0 < |x - c| < \delta$ iff $x \in (c - \delta, c) \cup (c, c + \delta)$ (聯集 (union))

$n \in \mathbb{Z}$ and $n \leq x < n + 1$ iff $n = [x]$ (整數 (integers))

同義字

Given, any (給定任意的)

we can find (我們可以找到)