

$a \in A$ $\forall \delta > 0$ $\exists \epsilon > 0$ $\Rightarrow \exists a' \in A$ $A \subseteq \mathbb{R}$ $\epsilon > 0$ $\exists a' \in A$
 $A^{-1} = \left\{ \frac{1}{a} \mid a \in A \right\}$ $\exists \epsilon > 0, a > 0$

A^{-1} $\exists \epsilon > 0$ $\exists \delta > 0$ $\forall a \in A$ $\frac{1}{a} \in A^{-1}$ $\Leftrightarrow A \exists \delta > 0$
 $\exists \delta > 0$ $\Rightarrow \inf A = 0$

$A^{-1} \exists \epsilon > 0$ $\Leftrightarrow \inf A = 0$

$A \exists \delta > 0$ $\Rightarrow \inf A \neq 0$

$A^{-1} \exists \epsilon > 0$ $\Rightarrow \inf A \neq 0$

$A^{-1} \exists \epsilon > 0$ $\Rightarrow \inf A \neq 0$

$\forall \frac{1}{a} \in A^{-1} : \frac{1}{a} \leq \frac{1}{m}$

$A \exists \delta > 0$ $\Rightarrow \inf A \neq 0$

$\forall a \in A : a \geq m$

$\forall a \in A : \frac{1}{m} \geq \frac{1}{a}$

$\forall \frac{1}{a} \in A^{-1} : \frac{1}{m} \geq \frac{1}{a}$

$A^{-1} \exists \epsilon > 0$ $\Rightarrow \inf A \neq 0$

$A^{-1} \exists \epsilon > 0$ $\Rightarrow \inf A \neq 0$

$\Leftrightarrow \exists \epsilon > 0$ $\exists \delta > 0$ $\forall a \in A$ $\frac{1}{a} \in A^{-1}$

$\exists \delta > 0$ $\Rightarrow \inf A \neq 0$

$\forall \frac{1}{a} \in A^{-1} : \frac{1}{a} \leq \frac{1}{m}$

$\forall a \in A : a \geq \frac{1}{\frac{1}{m}}$

A^{-1} से $\forall \delta$ $\exists \epsilon$ $\epsilon > 0$ $\epsilon < \frac{1}{M}$ $\forall x \in A^{-1}$ $|x| < \delta$ $\Rightarrow |f(x)| < \epsilon$

$\epsilon < \frac{1}{M}$ $\Rightarrow |f(x)| < \frac{1}{M}$ $\Rightarrow |f(x)| < \epsilon$

$\inf A = 0$ $\forall x \in A$ $x \geq 0$

$\forall \epsilon > 0 \exists \delta > 0$ $\forall x \in A$ $|x| < \delta \Rightarrow |f(x)| < \epsilon$

$\forall M > 0 \exists \delta > 0$ $\forall x \in A$ $|x| < \delta \Rightarrow |f(x)| > M$

$\inf A = 0$ $\Rightarrow \forall \epsilon > 0 \exists \delta > 0$ $\forall x \in A$ $|x| < \delta \Rightarrow |f(x)| < \epsilon$

~~$\forall \epsilon > 0 \exists \delta > 0$ $\forall x \in A$ $|x| < \delta \Rightarrow |f(x)| < \epsilon$~~

$\forall \epsilon > 0 \exists \delta > 0$ $\forall x \in A$ $|x| < \delta \Rightarrow |f(x)| < \epsilon$

$\Rightarrow \inf A = 0$

$\forall \epsilon > 0 \exists \delta > 0$ $\forall x \in A$ $|x| < \delta \Rightarrow |f(x)| < \epsilon$

\Downarrow

$\forall \epsilon > 0 \exists \delta > 0$ $\forall x \in A$ $|x| < \delta \Rightarrow |f(x)| < \epsilon$

$\delta = \frac{1}{M}$ $M = \frac{1}{\epsilon}$ $(M > 0)$

$\forall M > 0 \exists \delta > 0$ $\forall x \in A$ $|x| < \delta \Rightarrow |f(x)| > M$