

Cor. $D(A) \neq \emptyset \Rightarrow A \text{ è INFINITO}$
 \Leftarrow

2.24

DIM.

" \Leftarrow "

$$D(\mathbb{N}) = \emptyset$$

TEOREMA 12.-

$$x_0 \in D(A) \Leftrightarrow \exists \{x_n\}_{n \in \mathbb{N}} \subseteq A : \begin{cases} \text{j) } n \neq m \Rightarrow x_n \neq x_m \\ \text{jj) } \lim x_n = x_0 \end{cases}$$

DIM.

" \Leftarrow "

$$\lim x_n = x_0 \Leftrightarrow \forall I(x_0), \exists \nu \in \mathbb{N} : \forall n > \nu, x_n \in I \xRightarrow{\text{j)}} \\ \Rightarrow I \cap A \text{ INFINITO} \Rightarrow x_0 \in D(A)$$

" \Rightarrow "

$$x_1 \in]x_0 - 1, x_0 + 1[- \{x_0\}$$

$$\forall n \in \mathbb{N} : n \geq 2, x_n \in]x_0 - \frac{1}{n}, x_0 + \frac{1}{n}[- \{x_0, x_1, \dots, x_{n-1}\}$$

□