TEOREMA 1.- ("PONTE" PER FUNZIONI CONTINUE)

$$f \text{ CONTINUA in } x_0 \iff \left[\begin{array}{l} \forall \{x_n\}_{n\in\mathbb{N}} : x_n \in A \text{ E } \lim x_n = x_0 \\ \text{RISULTA} \quad \lim f(x_n) = f(x_0) \end{array}\right]$$

DIM.

OVVIA CONSEGUENZA DEL TEOREMA "PONTE"

$\square$

TEOREMA 2.- (DELLA PERMANENZA DEL SEGNO)

$$\left[\begin{array}{l} i)\ f \text{ CONTINUA in } x_0 \\ ii)\ f(x_0) > 0 \end{array}\right] \implies \exists\, I(x_0) : \forall x \in A \cap I,\ f(x) > 0$$

DIM. OVVIA

$\square$

TEOREMA 3.-

$$f; g \text{ CONTINUE IN } x_0 \implies f \pm g;\ fg;\ \frac{f}{g} \text{ SE } g \neq 0; \text{ CONTINUE IN } x$$

$\square$

TEOREMA 4.-

$$\left[\begin{array}{l} i)\ f \text{ CONT. in } x_0 \\ ii)\ g \text{ CONT. in } y_0 = f(x_0) \end{array}\right] \implies g(f(x)) \text{ CONT. in } x_0$$

$\square$

BUONOCORE