

$$\left[ \begin{array}{c} x_0 \text{ DISCONTINUITA'} \\ \text{DI } 2^{\text{a}} \text{ SPECIE} \end{array} \right] \stackrel{\text{DEF}}{\iff} \left[ \begin{array}{c} x_0 \text{ DISCONTINUITA'} \\ \text{NE' ELIMINABILE NE' DI } 1^{\text{a}} \text{ SPECIE} \end{array} \right]$$

Es. 5. -

$$f: x \in ]-\infty, 0[ \cup ]0, +\infty[ \rightarrow f(x) = \frac{1}{x}$$

$$\lim_{x \rightarrow 0^-} f(x) = -\infty \quad ; \quad \lim_{x \rightarrow 0^+} f(x) = +\infty$$

Es. 6. -

$$g: x \in ]-\infty, 0[ \cup ]0, +\infty[ \rightarrow g(x) = 2^{\frac{1}{x}}$$

$$\lim_{x \rightarrow 0^-} g(x) = 0 \quad ; \quad \lim_{x \rightarrow 0^+} g(x) = +\infty$$

Es. 7. -

$$h: x \in ]-\infty, 0[ \cup ]0, +\infty[ \rightarrow h(x) = \sin \frac{1}{x}$$

$$\nexists \lim_{x \rightarrow 0^-} h(x) \quad ; \quad \nexists \lim_{x \rightarrow 0^+} h(x)$$

Es. 8. -

$$k: x \in ]-\infty, 0[ \cup ]0, +\infty[ \rightarrow k(x) = \sin 2^{\frac{1}{x}}$$

$$\lim_{x \rightarrow 0^-} k(x) = 0 \quad ; \quad \nexists \lim_{x \rightarrow 0^+} k(x)$$

□