

EJERCICIO M2BE3331:

$$\lim_{x \rightarrow 0} \frac{\sqrt{x+4} - 2}{x - x^2} = \frac{\sqrt{0+4} - 2}{0 - 0} = \left(\frac{0}{0}\right) \leftarrow \text{SNDET.}$$

i Conjugado!

$$= \lim_{x \rightarrow 0} \frac{(\sqrt{x+4} - 2) \cdot (\sqrt{x+4} + 2)}{(x - x^2) \cdot (\sqrt{x+4} + 2)} =$$

$$= \lim_{x \rightarrow 0} \frac{x+4-4}{(x-x^2) \cdot (\sqrt{x+4} + 2)} =$$

$$= \lim_{x \rightarrow 0} \frac{\cancel{x}}{\cancel{x}(1-x) \cdot (\sqrt{x+4} + 2)} =$$

$$= \lim_{x \rightarrow 0} \frac{1}{(1-x) \cdot (\sqrt{x+4} + 2)} =$$

$$= \frac{1}{(1-0) \cdot (\sqrt{0+4} + 2)} = \boxed{\frac{1}{4}}$$