

Limiti delle forme indeterminate 0/0 e ∞^0

Studiare i limiti

$$1) \lim_{x \rightarrow 1^+} \frac{\operatorname{sen}(\sqrt{x^2 - 1})}{\ln(x + 3\sqrt{x^2 - 1})} \quad \text{Ris. } \frac{1}{3}$$

$$2) \lim_{x \rightarrow \left(\frac{\pi}{2}\right)^-} [\tan(x)]^{\sqrt{\cos(x)}} \quad \text{Ris. } 1$$

$$3) \lim_{x \rightarrow (-1)^-} \frac{\operatorname{arcsen}(\sqrt{x^2 + x})}{\ln(x^2 + 4\sqrt{x^2 + x})} \quad \text{Ris. } \frac{1}{4}$$