

Limiti notevoli

$$\textcircled{1} \lim_{x \rightarrow 0} \frac{\sin x}{x} = 1 \quad \textcircled{2} \lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2} = \frac{1}{2} \quad \textcircled{3} \lim_{x \rightarrow 0} \frac{\log(1+x)}{x} = 1$$

$$\textcircled{4} \lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1 \quad \textcircled{5} \lim_{x \rightarrow 0} \frac{(1+x)^\alpha - 1}{x} = \alpha \quad \forall \alpha \in \mathbb{R} \quad \textcircled{6} \lim_{x \rightarrow 0} \frac{a^x - 1}{x} = \log a \quad \forall a > 0$$

$$\textcircled{7} \lim_{x \rightarrow 0} \frac{1 - \cos x}{x} = 0 \quad \textcircled{8} \lim_{x \rightarrow 0} \frac{\tan x}{x} = 1 \quad \textcircled{9} \lim_{x \rightarrow 0} \frac{\arcsin x}{x} = 1$$

$$\textcircled{10} \lim_{x \rightarrow 0} \frac{\arctan x}{x} = 1$$