

Limiti notevoli

- $\lim_{x \rightarrow \pm\infty} \left(1 + \frac{1}{x}\right)^x = e$
- $\lim_{x \rightarrow 0} (1+x)^{1/x} = e$
- $\lim_{x \rightarrow 0} \frac{\log_a(1+x)}{x} = \log_a e = 1/\log a$
- $\lim_{x \rightarrow 0} \frac{\log(1+x)}{x} = \log e = 1$
- $\lim_{x \rightarrow 0} \frac{a^x - 1}{x} = \log a$ $\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1$
- $\lim_{x \rightarrow 0} \frac{(1+x)^\alpha - 1}{x} = \alpha$
- $\lim_{x \rightarrow +\infty} \frac{a^x}{x^\alpha} = +\infty$ ($a > 1, \alpha > 0$)
- $\lim_{x \rightarrow +\infty} \frac{(\log_a x)^p}{x^\alpha} = 0$ ($a > 1, \alpha > 0$)
- $\lim_{x \rightarrow 0^+} x^\alpha |\log_a x|^p = 0$ ($a > 1, \alpha, p > 0$)
- $\lim_{x \rightarrow -\infty} |x|^\alpha e^{px} = 0$ ($\alpha, p > 0$)
- $\lim_{x \rightarrow 0} \frac{\text{sen } x}{x} = 1$
- $\lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2} = \frac{1}{2}$