$\lim_{x\to 0}\,\frac{e^x-1}{x}=1$

 $\lim_{x \to 0} \frac{\sin x}{x} = 1$

 $\lim_{u_n o +\infty} \left(1 + rac{k}{u_n}
ight)^{u_n} = e^k$

$$\lim_{x o +\infty} rac{a^x}{x^p} = +\infty \hspace{0.5cm} (a,p\in \mathbb{R})$$

$$\lim_{x o 0} rac{\ln(x+1)}{x} = 1$$
 $\lim_{x o +\infty} rac{\sin x}{x} = 0$

 $\lim \left(1+rac{1}{n}
ight)^n=e \quad \ (n\in \mathbb{N})$

 $\lim_{x o +\infty} rac{\log_a x}{x} = 0 \hspace{0.5cm} (a>1, a\in \mathbb{R})$