



$$\lim_{x\to 0} \frac{\sin x}{x} = 1 \qquad \lim_{x\to \infty} \left(1 + \frac{\alpha}{x}\right)^{x} = e^{\alpha}$$

$$\lim_{x\to 0} \frac{\alpha^{x} - 1}{x} = \log(\alpha) \quad \text{con } \alpha = e^{-\alpha} = 1$$







