

L'HOPITAL

$$\lim_{x \rightarrow 0} \frac{e^x - e^{-x}}{\sin x}$$

$$\lim_{x \rightarrow \infty} \frac{x}{(\ln x)^3 + 2x}$$

$$\lim_{x \rightarrow 0} \left(\frac{1}{x} - \frac{1}{\sin x} \right)$$

$$\lim_{x \rightarrow \frac{\pi}{4}} (\tan x - 1) \sec 2x$$

$$\lim_{x \rightarrow 0} x^{\tan x}$$

$$\lim_{x \rightarrow 0} (\cotan x)^{\sin x}$$

$$\lim_{x \rightarrow 2} \left(\frac{x}{2}\right)^{\frac{1}{x-2}}$$

$$\lim_{x \rightarrow 1} \frac{\ln x}{x - 1}$$

$$\lim_{x \rightarrow 0} \frac{\operatorname{sen} 3x}{x - \frac{3}{2} \operatorname{sen} 2x}$$

$$\lim_{x \rightarrow 0} \cotan x \operatorname{arcsen} x$$

$$\lim_{x \rightarrow 0} \frac{\ln(1+x) - \operatorname{sen} x}{x \operatorname{sen} x}$$