Calcula los siguientes límites de funciones:

$\lim_{x\to 0}\dfrac{e^x-e^{senx}}{x^3}$

$\lim_{x\to 0}\dfrac{\cos^2 x-\cos x}{x^2}$

$\lim_{x\to 0}\dfrac{x-senx}{x^3}$

$\lim_{x\to 0}\dfrac{sen5x}{2x}$

$\lim_{x\to \frac{\pi}{4}}\dfrac{\sqrt{2}-2\cos x}{\pi-4x}$

$\lim_{x\to \frac{\pi}{2}}\dfrac{tgx}{tg5x}$

$\lim_{x\to 0}\dfrac{(2-x)e^x-(2+x)}{x^2}$

$\lim_{x\to 0}\dfrac{2arctgx-x}{2x-arcsenx}$

$\lim_{x\to 0}\dfrac{\sqrt[3]{1-x^2}-\cos x}{x^2}$

$\lim_{x\to 0}\dfrac{e^x senx-x}{3x^2+x^5}$

$\lim_{x\to 0}\dfrac{e^x senx-1}{\ln(1+x)}$

$\lim_{x\to 1}\left(\dfrac{x}{\ln x}-\dfrac{1}{sen(x-1)}\right)$

$\lim_{x\to \frac{\pi}{2}}(\sec x-tgx)$

$\lim_{x\to 0^+}\dfrac{\ln x}{cotgx}$

$\lim_{x\to 0}(x\cdot cotgx)$

$\lim_{x\to 1}\left[\ln(2-x)\right]^{x-1}$

$\lim_{x\to 0^+}(cotg2x)^{1/\ln x}$

$\lim_{x\to 1}(x)^{1/x-1}$

$\lim_{x\to \infty}(x^2-1)^{1/x}$

$\lim_{x\to 0}\left(\dfrac{senx}{x}\right)^{1/x^2}$

$\lim_{x\to 1}\left(tg\left(\dfrac{\pi x}{4}\right)\right)^{tg\left(\frac{\pi x}{2}\right)}$

$\lim_{x\to 0}\left(\dfrac{1}{x^2}-\dfrac{cotgx}{x}\right)$

$\lim_{x\to 0}\dfrac{sen^2 3x}{tgx^2}$

$\lim_{x\to 0}\left[(1-\cos x)\cdot cotgx\right]$

$\lim_{x\to 0}\left(\dfrac{1}{x}\cdot\ln\sqrt{\dfrac{1+x}{1-x}}\right)$

$\lim_{x\to \infty}\dfrac{x^n}{e^x}$