Solución

a) $\lim_{x\to 0} \dfrac{e^{x^2}-1}{-x^3+5x} = 0$

b) $\lim_{x\to +\infty} \dfrac{3x^2}{\ln(x^3-3)} = +\infty$

c) $\lim_{x\to 0} \dfrac{x-\operatorname{sen} x}{x^3} = \dfrac{1}{6}$

d) $\lim_{x\to 0} \dfrac{x-\ln(x+1)}{x} = 0$

e) $\lim_{x\to +\infty} \dfrac{\sqrt[3]{x}}{\ln x} = +\infty$

f) $\lim_{x\to 2} \left(\dfrac{4}{x^2-4} - \dfrac{1}{x-2}\right) = -\dfrac{1}{4}$