$$\lim_{x\to 1}\frac{x^2-4}{x^2-x-2}$$

$$\lim_{x\to 1}\frac{x^2+4x-5}{x^2-1}$$

$$\lim_{x\to\infty}\left(\frac{x^3+3x^2}{x^2+1}-x\right)$$

$$\lim_{x\to 2}\frac{x^2-4}{x^2-x-2}$$

$$\lim_{x\to\infty}\frac{x^2+4x-5}{x^2-1}$$

$$\lim_{x\to 6}\frac{\sqrt{x-2}-2}{x-6}$$

$$\lim_{x\to\infty}\frac{x^2-4}{x^2-x-2}$$

$$\lim_{x\to -1}\frac{x^2+4x-5}{x^2-1}$$

$$\lim_{x\to\infty}\frac{5-x^6}{\sqrt{x^{12}+5x^5-1}}$$

$$\lim_{x\to\infty}(\sqrt{x^4+2x^2-1}-\sqrt{x^4-2x^2-1})$$