

Calculer les limites suivantes:

$$\lim_{x \rightarrow -\infty} \sqrt{x^2 - 1} + x$$

$$\lim_{x \rightarrow +\infty} \frac{(\sqrt{x^2 - 1} + x)}{x}$$

$$\lim_{x \rightarrow +\infty} \frac{\sqrt{x^2 - 1} + 3}{\sqrt{x^2 - 1}}$$

$$\lim_{x \rightarrow +\infty} \frac{2x^3 - 7x + 1}{x^2 + x - 1}$$

$$\lim_{x \rightarrow 1} \frac{3x^2 - 5x + 1}{x - 1}$$

$$\lim_{x \rightarrow 2} \frac{x^3 - x - 6}{x^2 - 4}$$

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

$$\lim_{x \rightarrow 1} \frac{2}{x^2 - 1} - \frac{1}{x - 1}$$

$$\lim_{x \rightarrow +\infty} \frac{x^3}{x^2 + 1} - x$$

$$\lim_{x \rightarrow 2} \frac{1}{x(x-2)^2} - \frac{1}{x^2 - 3x + 2}$$

$$\lim_{x \rightarrow 4} \frac{\sqrt{x+5} - 3}{x - 4}$$

$$\lim_{x \rightarrow 0} \frac{\sqrt{x^2}}{x}$$

$$\lim_{x \rightarrow 4} \frac{\sqrt{x} - 2}{x^2 - 5x + 4}$$

$$\lim_{x \rightarrow -\infty} \sqrt{x^2 - x + 1} + 2x$$

$$\lim_{x \rightarrow 9} \frac{3 - \sqrt{x}}{x^2 - 81}$$

$$\lim_{x \rightarrow +\infty} \sqrt{x+1} - \sqrt{x}$$

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

$$\lim_{x \rightarrow +\infty} \frac{\sqrt{x^2 + 1}}{x} - \sqrt{x}$$

$$\lim_{x \rightarrow -1} \frac{\sqrt{3x+4} - 1}{x^2 - 1}$$

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