

LÍMITES

Calcular el límite de las siguientes sucesiones:

- $$\lim_{n \rightarrow \infty} \frac{n^2 + 5n - 2}{2n^2 + 1}$$
- $$\lim_{n \rightarrow \infty} \left(\sqrt{(n+1) \cdot (n+2)} - \sqrt{n^2 + 1} \right)$$
- $$\lim_{n \rightarrow \infty} \frac{1 + 2n}{4n^2 + 1}$$
- $$\lim_{n \rightarrow \infty} \left[(2n + 1) - \sqrt{4n^2 + 3n - 5} \right]$$
- $$\lim_{n \rightarrow \infty} \frac{n^2 + 5n - 2}{2n^2 + 1}$$
- $$\lim_{n \rightarrow \infty} \frac{n \cdot (3n^2 - 2)}{(n-1)^2 \cdot (4-n)}$$
- $$\lim_{n \rightarrow \infty} \sqrt{n^2 + 1} - n - 1$$
- $$\lim_{n \rightarrow \infty} \sqrt{n^2 + 4n + 1} - \sqrt{n^2 + 8n + 1}$$
- $$\lim_{n \rightarrow \infty} \left(\sqrt{2n^2 + 3n - 2} - \sqrt{2n^2 + 2} \right)$$
- $$\lim_{n \rightarrow \infty} \sqrt{\frac{n^2 + 5n + 1}{2n^2 + 3n + 1}}$$
- $$\lim_{n \rightarrow \infty} \operatorname{Ln} \left| \frac{2n^4 - 2n}{3n^2 + n^3 - n^4} \right|$$
- $$\lim_{n \rightarrow \infty} \left(\frac{(n-1) \cdot (n^2 + 1)}{1 - n^3} \right)^3$$
- $$\lim_{n \rightarrow \infty} \frac{n^2 - (n-2) \cdot (n+1)}{n^2 + 3}$$
- $$\lim_{n \rightarrow \infty} \sqrt[3]{\frac{n^{54} - m}{(3 - n^{53}) \cdot 8n}}$$
- $$\lim_{n \rightarrow \infty} \frac{n^6 - 5n^5 + 1}{1 - n^5 + n^4}$$
- $$\lim_{n \rightarrow \infty} \frac{\sqrt{n+1} - \sqrt{n-1}}{3}$$
- $$\lim_{n \rightarrow \infty} \left(\sqrt{2n+1} - \sqrt{n^2} \right)$$
- $$\lim_{n \rightarrow \infty} 3^{-1/n}$$
- $$\lim_{n \rightarrow \infty} \frac{\sqrt{n}}{1 + \sqrt{2n}}$$

20. $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^{n-6}$

21. $\lim_{n \rightarrow \infty} \left(1 - \frac{2}{n+1}\right)^{\frac{n}{3}}$

22. $\lim_{n \rightarrow \infty} \left(\frac{n+1}{n}\right)^{-2n}$

23. $\lim_{n \rightarrow \infty} \left(\frac{n^2 + 2n + 1}{n^2 - 3n + 2}\right)^{1-2n}$