

Calcolare i limiti delle seguenti successioni

$$a_n = \frac{n^4 - 2n + 1}{n^3 - 3}$$

$$a_n = \frac{3n^2 - n^5}{1 + n^2}$$

$$a_n = \frac{2n^4 - 6n^8}{n^3 - n^5}$$

$$a_n = \frac{(2n + 1)^3}{n^3 + 4}$$

$$a_n = \frac{8n + 1}{(2n - 5)^2}$$

$$a_n = \frac{n^3 - 6}{n^4 + 1}$$

$$a_n = \log_3 \frac{2n + 1}{n^2 + 6}$$

$$a_n = \log \frac{4n^2 + 1}{2n + 3}$$

$$a_n = \log_{\frac{1}{e}} \frac{1 - n^2}{3 - 2n}$$

$$a_n = \log_{\frac{1}{4}} \frac{n + 1}{2n^2 + 6}$$

$$a_n = e^{\frac{1 - n}{n^2 + 8}}$$

$$a_n = 2^{\frac{2n + 1}{n + 6}}$$

$$a_n = 3^{\frac{2n - n^3}{n^2 + 1}}$$

$$a_n = \pi^{\frac{n^8 + 1}{n + 7}}$$

$$a_n = \left(\frac{2}{3}\right)^{\frac{n^5 + 4}{2n - 3}}$$

$$a_n = \left(\frac{1}{9}\right)^{\frac{2n - n^3}{n + 1}}$$

$$a_n = (3n-2) \sin \frac{2}{n+4}$$

$$a_n = (n-1)^2 \sin \frac{n+1}{(n+2)^3}$$

$$a_n = (2n-1) \operatorname{tg} \frac{n}{n^2+3}$$

$$a_n = \frac{\operatorname{tg} \frac{1}{n^2+1}}{\sin^2 \frac{2}{n}}$$

$$a_n = \frac{\sin \frac{n}{n^3+6}}{\arctg \frac{3n^2+1}{n^4-5}}$$

$$a_n = \frac{1 - \cos \frac{3n}{n^4+6}}{\sin^2 \frac{2}{n^3}}$$

$$a_n = \frac{\sin^2 \frac{1}{n+3}}{\cos \frac{2n+1}{3n^2+2} - 1}$$