15/11/2018

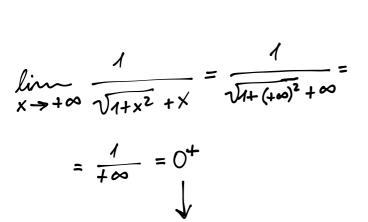
$$\lim_{x \to -\infty} \frac{1}{\sqrt{1 + x^2 + x}} = \frac{1}{\sqrt{1 + (-\infty)^2 + (-\infty)}}$$

$$= \frac{1}{+\infty - \infty}$$
 F.1.

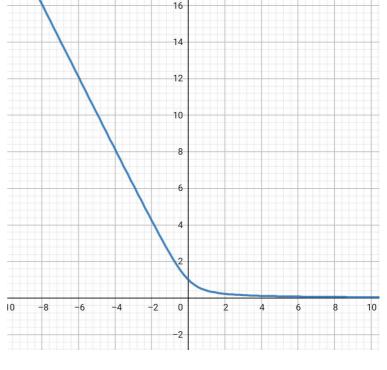
$$\frac{1}{\sqrt{1+x^2} + x} \cdot \frac{\sqrt{1+x^2} - x}{\sqrt{1+x^2} - x} = \frac{\sqrt{1+x^2} - x}{1+x^2-x^2} = \frac{1}{\sqrt{1+x^2} - x}$$

$$= \sqrt{1+x^2} - x \xrightarrow{\times \to -\infty} \sqrt{1+(-\infty)^2} - (-\infty) =$$

$$\lim_{X \to -\infty} \frac{1}{\sqrt{1+x^2} + X} = +\infty$$



APPLIVA A O



DAIL'ALTO, OLOÉ PER VALORI SEMPRE POSITIVI

$$\lim_{x \to +\infty} \frac{x}{x^2 + \sqrt{3 + x^4}} = \frac{+\infty}{+\infty} \quad \text{F.1.}$$

1° TENUTIVO

$$\lim_{x \to +\infty} \frac{x}{x^2 + \sqrt{3} + x^4} \cdot \frac{x^2 - \sqrt{3} + x^4}{x^2 - \sqrt{3} + x^4} = \lim_{x \to +\infty} \frac{x(x^2 - \sqrt{3} + x^4)}{x^4 - (3 + x^4)} =$$

$$= \lim_{x \to +\infty} \frac{x(x^2 \sqrt{3} + x^4)}{x^4 - 3 - x^4} \rightarrow +\infty - \infty \quad \text{F.1.}$$
TENTATIVO FAUIZO

2º TEMATIVO

$$\lim_{x \to +\infty} \frac{x}{x^2 + \sqrt{3} + x^4} = \lim_{x \to +\infty} \frac{x}{x^2 + \sqrt{x^4 \left(\frac{3}{x^4} + 1\right)}} =$$

$$=\lim_{X\to+\infty} \frac{x}{x^2 + x^2 \sqrt{\frac{3}{x^4} + 1}} = \lim_{X\to+\infty} \frac{x}{x^2 \left[1 + \sqrt{\frac{3}{x^4} + 1}\right]} = \lim_{X\to+\infty} \frac{x}{x^4 + x^2 \sqrt{\frac{3}{x^4} + 1}} = \lim_{X\to+\infty} \frac{x}{x^4 + x^4 \sqrt{\frac{3}{x^4} + 1}} = \lim_{X\to+\infty} \frac{x}{x^4 \sqrt{\frac{3}{x^4} + 1}} = \lim_{X\to+\infty} \frac{$$

$$=\lim_{X\to 7+\infty}\frac{1}{|X|+1}=\frac{1}{+\infty \cdot 2}=\frac{1}{+\infty}=0^{+}$$

