

Calcolare i seguenti limiti, scrivendo la risposta mediante un'unica frazione:

$$\lim_{x \rightarrow \frac{\sqrt{2}}{2}} \frac{\pi \arcsen x - \pi^2}{x\sqrt{2}} + \left(x - \frac{\sqrt{2}}{2}\right) \frac{|x-8|}{x-8}$$

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

$$\lim_{x \rightarrow \frac{\pi}{4}} (\operatorname{tg} x) \operatorname{sen}^2 x$$

$$\lim_{x \rightarrow \frac{\pi}{4}} \operatorname{sen} x + \frac{\cos x}{2}$$

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

$$\lim_{x \rightarrow 1} \frac{1}{\arccos x + 2 \arcsen x}$$

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

$$\lim_{x \rightarrow \frac{\pi}{4}} \frac{\operatorname{tg} x}{3} + \frac{1}{\operatorname{sen} x} + \left(x - \frac{\pi}{4}\right) \operatorname{sen}(x^8)$$

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

$$\lim_{x \rightarrow -1} \frac{\pi}{(\arcsen x)(\arccos x)} + \sqrt{x+1} \operatorname{arctg} \left( \frac{1}{\log(x+2)} \right)$$

$$\lim_{x \rightarrow 1} \frac{3}{5} \left( 1 + \log \left( \frac{4 \operatorname{arctg} x}{\pi} \right) \right)$$

$$\lim_{x \rightarrow 0} x^2 + \operatorname{sen}(1 - \log(e+x)) + \frac{1+x}{2}$$

$$\lim_{x \rightarrow \frac{\pi}{6}} \frac{\operatorname{sen} x}{5} + \sqrt{3} \cos x$$

$$\lim_{x \rightarrow 0} \frac{e^x + 2}{x + e}$$

$$\lim_{x \rightarrow \frac{1}{2}} \frac{\arcsen x}{\arccos x}$$

$$\lim_{x \rightarrow 2} \frac{1}{2} \arcsen(\log_2 x)$$

$$\lim_{x \rightarrow \frac{\pi}{3}} \frac{1}{2 \cos x} + \frac{\operatorname{tg} x}{3}$$

$$\lim_{x \rightarrow 3} \left(\frac{1}{3}\right)^x - \frac{x}{3}$$

$$\lim_{x \rightarrow \frac{\sqrt{3}}{2}} 6 \arccos x + 2 \operatorname{arcsen} x$$

$$\lim_{x \rightarrow 1} \frac{\log(1 + e^x)}{e + 1}$$

$$\lim_{x \rightarrow \frac{\pi}{3}} \sqrt{3} \operatorname{sen} x - \frac{\cos x}{\sqrt{3}}$$

$$\lim_{x \rightarrow 2} \frac{1 + e^x}{e x}$$

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

$$\lim_{x \rightarrow \sqrt{3}} \frac{\operatorname{arctg}\left(\frac{1}{x}\right)}{\operatorname{arctg} x}$$

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

$$\lim_{x \rightarrow \frac{\sqrt{3}}{2}} 3 \operatorname{arcsen} x + \operatorname{arctg}(2x)$$

$$\lim_{x \rightarrow \frac{\pi}{6}} \frac{\cos x}{2} + \frac{1}{\operatorname{tg} x}$$

$$\lim_{x \rightarrow 3} \frac{\left(\frac{1}{2}\right)^x - 1}{x + 4}$$

$$\lim_{x \rightarrow \frac{\sqrt{2}}{2}} \frac{\operatorname{arcsen} x}{\pi} + \frac{\pi}{\arccos x}$$

$$\lim_{x \rightarrow 3} \frac{1}{x + \log_4(x + 1)}$$

$$\lim_{x \rightarrow \frac{\pi}{3}} \frac{\operatorname{tg} x}{3} + \frac{1}{2 \operatorname{sen} x}$$

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

$$\lim_{x \rightarrow \frac{1}{\sqrt{3}}} \frac{\operatorname{arctg} x}{\pi} + \frac{1}{x}$$

$$\lim_{x \rightarrow 2} \frac{1}{\pi} \arccos \left( \frac{\sqrt{2}}{x} \right)$$

$$\lim_{x \rightarrow \frac{\pi}{4}} \sqrt{2} \operatorname{sen} x - \frac{\cos x}{\sqrt{2}}$$

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

$$\lim_{x \rightarrow 1} \operatorname{arcsen} x + \arccos x + \operatorname{arctg} x$$

$$\lim_{x \rightarrow 1} \frac{e^{4 \operatorname{arctg} x} - e^x}{2x}$$

$$\lim_{x \rightarrow \frac{\pi}{6}} \frac{1}{\sqrt{3} \operatorname{tg} x} - \operatorname{sen} x$$

$$\lim_{x \rightarrow 2} \frac{x^3}{2 \log(3x)}$$

$$\lim_{x \rightarrow \frac{\pi}{6}} \frac{\cos x}{\sqrt{3}} + \operatorname{tg} x$$

$$\lim_{x \rightarrow 1} \frac{e^{x+1}}{x^e + e}$$

$$\lim_{x \rightarrow \frac{1}{2}} 3 \arccos x - 2 \operatorname{arcsen} x$$

$$\lim_{x \rightarrow 1} 1 + \operatorname{arctg}(1 + \log x)$$