

Scheda sui limiti

4^a C Scientifico 20/05/2022

Calcolare i seguenti limiti.

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| Esercizio 1. $\lim_{x \rightarrow -\infty} \log_{2/5}(3-x)$ | $\lim_{x \rightarrow 3^-} \log_{2/5}(3-x)$ |
| Esercizio 2. $\lim_{x \rightarrow -\infty} \exp(-x^2)$ | $\lim_{x \rightarrow +\infty} \exp(-x^2)$ |
| Esercizio 3. $\lim_{x \rightarrow \left(\frac{\pi}{2}\right)^-} \exp(\tan x)$ | $\lim_{x \rightarrow \left(\frac{\pi}{2}\right)^+} \exp(\tan x)$ |
| Esercizio 4. $\lim_{x \rightarrow -\infty} \exp(\arctan x)$ | $\lim_{x \rightarrow +\infty} \exp(\arctan x)$ |
| Esercizio 5. $\lim_{x \rightarrow -\infty} \arctan(\exp(x))$ | $\lim_{x \rightarrow +\infty} \arctan(\exp(x))$ |
| Esercizio 6. $\lim_{x \rightarrow 0^+} \ln(\arctan x)$ | $\lim_{x \rightarrow +\infty} \ln(\arctan x)$ |
| Esercizio 7. $\lim_{x \rightarrow 0^+} \arctan(\ln(x))$ | $\lim_{x \rightarrow +\infty} \arctan(\ln(x))$ |
| Esercizio 8. $\lim_{x \rightarrow 0^-} \arctan\left(\frac{1}{\sin x}\right)$ | $\lim_{x \rightarrow \pi^-} \arctan\left(\frac{1}{\sin x}\right)$ |
| Esercizio 9. $\lim_{x \rightarrow 0^+} \ln\left(\frac{1}{\sin x}\right)$ | $\lim_{x \rightarrow \pi^-} \ln\left(\frac{1}{\sin x}\right)$ |
| Esercizio 10. $\lim_{x \rightarrow 0^+} \log_{1/4}\left(\frac{1}{\sin x}\right)$ | $\lim_{x \rightarrow \pi^-} \log_{1/4}\left(\frac{1}{\sin x}\right)$ |
| Esercizio 11. $\lim_{x \rightarrow 0^-} \exp\left(\frac{1}{\sin x}\right)$ | $\lim_{x \rightarrow \pi^-} \exp\left(\frac{1}{\sin x}\right)$ |
| Esercizio 12. $\lim_{x \rightarrow 0^-} \left(\frac{3}{4}\right)^{1/\sin x}$ | $\lim_{x \rightarrow \pi^-} \left(\frac{3}{4}\right)^{1/\sin x}$ |
| Esercizio 13. $\lim_{x \rightarrow -\infty} \ln\left(\frac{\pi}{2} - \arctan x\right)$ | $\lim_{x \rightarrow +\infty} \ln\left(\frac{\pi}{2} - \arctan x\right)$ |
| Esercizio 14. $\lim_{x \rightarrow 0^+} \exp(1 + \ln x)$ | $\lim_{x \rightarrow +\infty} \exp(1 + \ln x)$ |
| Esercizio 15. $\lim_{x \rightarrow 0^+} \ln(1 + \ln x)$ | $\lim_{x \rightarrow +\infty} \ln(1 + \ln x)$ |
| Esercizio 16. $\lim_{x \rightarrow 0^-} \ln(1 - \exp(x))$ | $\lim_{x \rightarrow -\infty} \ln(1 - \exp(x))$ |
| Esercizio 17. $\lim_{x \rightarrow (-6\pi)^-} \log_{1/3}(1 - \cos x)$ | $\lim_{x \rightarrow 0^+} \log_{1/3}(1 - \cos x)$ |
| Esercizio 18. $\lim_{x \rightarrow 6^-} -2 \exp(\log_{3/4}(6-x))$ | $\lim_{x \rightarrow 5^-} -2 \exp\left(\frac{1}{\log_{3/4}(6-x)}\right)$ |
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