

Esercizi analisi 1

17-21/11/2025

Esercizio 1 Calcolare i seguenti limiti

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$$\lim_{x \rightarrow 0} \frac{e^{\sin x} - 1 - \sin x}{x^2}$$

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$$\lim_{x \rightarrow 0} \frac{e^{3x} - (x+1)^3 - \frac{3}{2}x^2}{x^3}$$

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$$\lim_{x \rightarrow 0} \frac{e^x - e^{\sin x}}{x \ln(\cos x)}$$

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$$\lim_{x \rightarrow 0} \frac{\sin x - \cos x + 1}{2x + x^2 + 1 - \frac{e^x - 1}{x}}$$

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$$\lim_{x \rightarrow 0} \frac{2 \sin x - \ln(1 + 2x)}{x^2}$$

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$$\lim_{x \rightarrow 0} \frac{\frac{2}{2+x^2} - \cos x}{\ln(1+x^3)}$$