



Exercice 1. Déterminer les limites suivantes

1. $\lim_{n \rightarrow +\infty} \frac{5 - \frac{1}{\sqrt{n}}}{0,1^n}$

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2. $\lim_{n \rightarrow +\infty} \frac{3n^3 - 5}{-2n^3 - 5n^2}$

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3. $\lim_{n \rightarrow +\infty} \frac{1 + \sin n}{n}$

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**Exercice 2.** Résoudre les équations et l'inéquation ci-dessous

1. $\ln(5 - x) = 1$

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2. $e^{5x-4} = 4$

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3. $\ln(x+6) < \ln(-x+3)$

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4. $\ln((x+3)(x-3)) = \ln(8x)$

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Exercice 3. Exprimer le nombre A sous la forme $a \ln 3$ $A = 5 \ln(3) - \ln(27) + \ln\left(\frac{1}{\sqrt{3}}\right)$

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