

Logarithm: Course Summary + Exercises + Answer

• **Definition:** The natural logarithm function, noted $\ln$, is the antiderivative on $]0, +\infty[$ which vanishes at 1, of the function $x \rightarrow \frac{1}{x}$. So, for any real number $x > 0$, $\ln x = \int_1^x \frac{1}{t} dt$.

• **Algebraic properties:** for all strictly positive reals a and b , we have:

$$\ln(ab) = \ln a + \ln b; \quad \ln\left(\frac{a}{b}\right) = \ln a - \ln b; \quad \ln(a^n) = n \ln a \quad (n \in \mathbb{Z});$$

$$\ln(\sqrt[n]{a}) = \frac{1}{n} \ln a; \quad \ln(\sqrt[n]{a}) = \frac{1}{n} \ln a.$$

• **Limits:** $\lim_{x \rightarrow +\infty} \ln x = +\infty$; $\lim_{x \rightarrow 0^+} \ln x = -\infty$;

$$\lim_{x \rightarrow +\infty} \frac{\ln x}{x} = 0; \quad \lim_{x \rightarrow 0^+} x \ln x = 0; \quad \lim_{h \rightarrow 0} \frac{\ln(1+h)}{h} = 1;$$

$$\lim_{x \rightarrow 1} \frac{\ln x}{x-1} = 1.$$

• For all non-zero naturals m and n , we have:

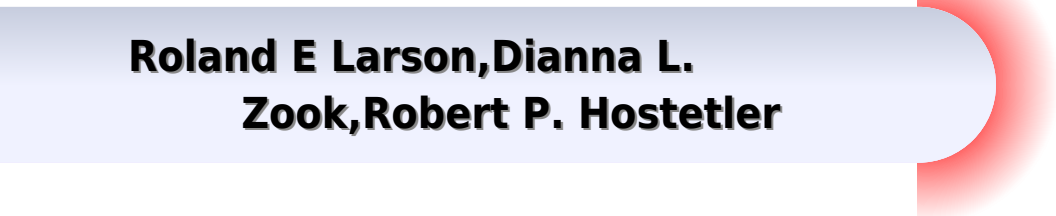
$$\lim_{x \rightarrow +\infty} \frac{\ln^m(x)}{x^n} = 0 \quad \text{and} \quad \lim_{x \rightarrow 0^+} x^n \ln^m(x) = 0$$

• **Equations and inequalities:** for all real numbers x and x' strictly positive, we have:

$$\begin{array}{l|l} \bullet \ln x = \ln x' \iff x = x' & \bullet \ln x < 0 \iff 0 < x < 1 \text{ and } \ln x > 0 \iff x > 1 \\ \bullet \ln x < \ln x' \iff x < x' & \end{array}$$

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**Roland E Larson, Dianna L.
Zook, Robert P. Hostetler**



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