

L^AT_EX 导数表

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1 导数表

$$(C)' = 0$$

$$(x^\mu)' = \mu x^{\mu-1}$$

$$(\sin x)' = \cos x$$

$$(\cos x)' = -\sin x$$

$$(\tan x)' = \sec^2 x$$

$$(\cot x)' = -\csc^2 x$$

$$(\sec x)' = \sec x \tan x \tag{1}$$

$$(\csc x)' = -\csc x \cot x$$

$$(a^x)' = a^x \ln a \quad (a > 0, a \neq 1)$$

$$(e^x)' = e^x$$

$$(\log_a x)' = \frac{1}{x \ln a} \quad (a > 0, a \neq 1)$$

$$(\ln x)' = \frac{1}{x}$$