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Strong form of uniform continuity for a continuous Lipschitz function, there is a double cone (white) whose origin can be moved along the graph so that the entire chart always remains out the double cone in mathematical analysis, Lipschitzian function, from the name Rudolf Lipschitz is a strong form of uniform continuity for functions. Intuitively, a continuous Lipschitzian function is limited as quickly can change: there is a real number such that, for each pair of points on the graph of this function, the absolute value of the slope of the line that connects them is no superior this real number; The smaller this limit is called the Lipschitz constant of the function (or uniform continuity module). For example, every function that is delimited prime derivative is Lipschitziana. [1] In the theory of differential equations, Lipschitziana function is the central condition of the Teorema PICARDA LINDELEF which guarantees the existence and unique of the solution of a problem with the initial values. A particular type of Lipschitzian function, called contraction, is used at the fixed point of the Banach theorem. [2] We have the following chain of rigid inclusions for functions in a non-trivial closed and limited interval of the real continuous line a derivabile Lipschitziana $f: \mathbb{R} \rightarrow \mathbb{R}$ continuous in which $0 < k < 1$ with $|f(x) - f(y)| \leq k|x - y|$ (for x, y in the interval). So F is called BilipSchitz (also written Lipschitz). A mapping of BilipSchitz is injected, and it is in fact a homeomorfism on its image. A BilipSchitz function is the same thing as a function of injection lipschitz whose reverse function is also Lipschitz. Lipschitz examples Continuous functions The F function $f(x) = x^2 + 5$ Defined for all real numbers is continuous lipschitz with the constant of Lipschitz $K = 2$, since it is everywhere differentiable and the absolute value of the derivative is delimited above from 1. See the first proprietor listed below under "Propert". Cipowise, the Sine function is Lipschitz Continuous because its derivative, the cosine function, is limited above 1 in absolute value. The $F(x)$ function $f(x) = \sin(x)$ Defined on the real ones is continuous Lipschitz with the Lipschitz constant equal to 1, from the inequality of the reverse triangle. This is an example of a continuous function of Lipschitz that is not differentiable. More generally, a standard on a vector space is continuous Lipschitz compared to the associated metric, with the Lipschitz constant equal to 1. Continuous functions of Lipschitz which are not differentiable function $f(x) = |x|$ (DisplayStyle $F(x) = |x|$) Continuous functions of Lipschitz which are everywhere differentiable but not continuously differentiable function $f(x) = \begin{cases} x^2 \sin(1/x) & \text{if } x \neq 0 \\ 0 & \text{if } x = 0 \end{cases}$ (DisplayStyle $f(x) = \begin{cases} x^2 \sin(1/x) & \text{if } x \neq 0 \\ 0 & \text{if } x = 0 \end{cases}$), whose derivative exists but has an essential discontinuity on $x = 0$. Continuous functions that are not (globally) Lipschitz continues the $F(x)$ function $f(x) = \frac{1}{x}$ defined on $[0, 1]$ is not the continuous of Lipschitz. This function becomes infinitely steep as x approaches 0 since its derivative becomes infinite. However, it is uniformly continuous, [4] and both continuous Hölder of class C^0 , $f(x) = \sqrt{x}$ for $x \in [0, 1]$ and also absolutely continuous on $[0, 1]$ (Both Implicated ex). Differentiable functions that are not (locally) Lipschitz continues the F function defined by $f(x) = \frac{1}{x}$ for $x > 0$

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