

Answer on Question #76407 – Math – Calculus

Question

Every continuous function is also differentiable.

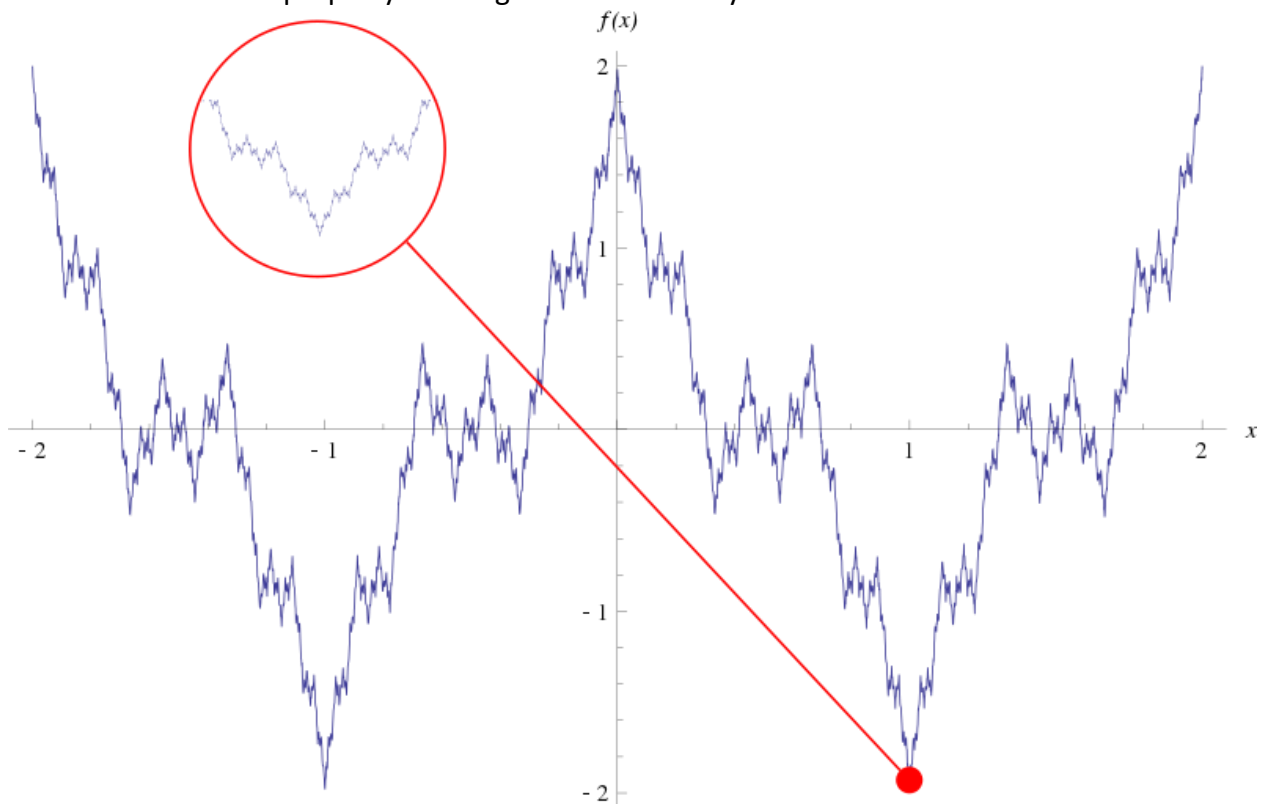
True or False

Solution

Continuous function is a function for which sufficiently small changes in the input result in arbitrarily small changes in the output.

Take Weierstrass function.

The function has the property of being continuous everywhere but differentiable nowhere



Answer:

False. Not every continuous function is also differentiable.