

Most continuous functions are nowhere differentiable

[math center](#)

The topic of this note is simply to show the Baire category theorem (BCT), which we state now.

Theorem 0.1 (Baire, Hausdorff). Let (X, d) be a complete metric space, $\{U_n\}_{n \geq 1}$ be a sequence of dense open subsets of X . Then the intersection of all the U_n is dense.

Proof.

□

The End

Compiled on 2025/10/28.

[Home page](#)