

Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a continuous function such that $f(1) = 1$ and

$$f(x + y) = f(x)2^y + f(y)2^x, \text{ for all } x \in \mathbb{R}, y \in \mathbb{R}$$

Which of the following is false?

A) $\lim_{x \rightarrow 0} \frac{f(x)}{x}$ exists.

B) $\lim_{x \rightarrow 0} \frac{f'(x)}{x}$ exists.

C) $\lim_{x \rightarrow 0} \frac{f(x)}{e^x} = 0$.

D) $\lim_{x \rightarrow 0} \frac{f(x)}{2^x}$ exists.

PISI M-Math

Real Analysis

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SOLUTION BY Sudip Kumar PMA

Real Analysis Solution

Léo Pomar



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