

TOPIC

Mathematics – Section I – Question 5

QUESTION

The definition of the first derivative of a function $f(x)$ is

- (A) $f'(x) = \frac{f(x+\Delta x)+f(x)}{\Delta x}$
- (B) $f'(x) = \frac{f(x+\Delta x)-f(x)}{\Delta x}$
- (C) $f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x)+f(x)}{\Delta x}$
- (D) $f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x+\Delta x)-f(x)}{\Delta x}$

HINT

Do not forget the limit.

CONTRIBUTOR

Autar Kaw