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) $f'(x) = \lim_{\Delta x \to 0} \frac{f(x+\Delta x)+f(x)}{\Delta x}$

(D) $f'(x) = \lim_{\Delta x \to 0} \frac{f(x+\Delta x)-f(x)}{\Delta x}$

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