## Answer on Question #55713 - Math - Calculus

6. A function y = f(x) is said to be differentiable at point x = a if .....

A. it possesses a differential coefficient and differentiable at a point x = a

B. it does not possesses a differential coefficient but differentiable at a point x = a.

*C. it possesses a differential coefficient and not differentiable at a point x = a.* 

D. it possesses a differential coefficient and differentiable at any point x

## Solution

A function y = f(x) is said to be differentiable at point x = a if it possesses a differential coefficient and differentiable at a point x = a.

If f is differentiable at a point x=a, then f also must be continuous at x=a.

Function f is said to be differentiable at x=a if the derivative f'(a) exists.

The differential coefficient of a function f(x) is what is now called its derivative df(x)/dx**Answer:** A.