

CHAPTER 5

CONTINUITY AND DIFFERENTIATION

POINTS TO REMEMBER

- A function $f(x)$ is said to be continuous at $x = c$ iff $\lim_{x \rightarrow c} f(x) = f(c)$
i.e., $\lim_{x \rightarrow c^-} f(x) = \lim_{x \rightarrow c^+} f(x) = f(c)$
- $f(x)$ is continuous in (a, b) iff it is continuous at $x = c \forall c \in (a, b)$.
- $f(x)$ is continuous in $[a, b]$ iff
 - (i) $f(x)$ is continuous in (a, b)
 - (ii) $\lim_{x \rightarrow a^+} f(x) = f(a)$,
 - (iii) $\lim_{x \rightarrow b^-} f(x) = f(b)$
- Trigonometric functions are continuous in their respective domains.
- Every polynomial function is continuous on \mathbb{R} .
- If $f(x)$ and $g(x)$ are two continuous functions and $c \in \mathbb{R}$ then at $x = a$
 - (i) $f(x) \pm g(x)$ are also continuous functions at $x = a$.
 - (ii) $g(x) \cdot f(x)$, $f(x) + c$, $cf(x)$, $|f(x)|$ are also continuous at $x = a$.
 - (iii) $\frac{f(x)}{g(x)}$ is continuous at $x = a$ provided $g(a) \neq 0$.
- $f(x)$ is derivable at $x = c$ in its domain iff

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Molecular Biology and Differentiation of Megakaryocytes Janine Breton-Gorius, 1990 This work assembles the contributions of authorities from many areas of cell biology in order to provide a critical account of recent developments in

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Encyclopaedia Britannica: Medal-Mumps Hugh Chisholm, 1911 This eleventh edition was developed during the encyclopaedia's transition from a British to an American publication Some of its articles were written by the best known scholars of the time and it is considered to be a landmark encyclopaedia for scholarship and literary style

The Encyclopædia Britannica, 1911

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