

CHAPTER - 5 :-

1- Continuity: $\lim_{x \rightarrow a^-} f(x) = \lim_{x \rightarrow a^+} f(x) = f(a)$

2- Greatest Integer function: $[x]$; less than or equal to x .

3- Logarithmic function: $\log_b a$

$$\rightarrow \log a + \log b = \log ab$$

$$\rightarrow \log a - \log b = \log \frac{a}{b}$$

$$\rightarrow \log_a a = 1$$

$$\log_b a = \frac{\log a}{\log b}$$

4- Parametric form of Differentiation: Diff w.r.to common variable and divide

5- Differentiability:

$$\lim_{h \rightarrow 0} \frac{f(a-h) - f(a)}{-h} = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$$