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MTH341

1. What is the nth- term of the Maclaurin's infinte series expansion of Cos x?
\(\frac{x^{2}}{n}\)
\(\frac{x^{n}}{n!}\)
\(\frac{n!}{2}\)
>> \((-1)^{n} \frac{x^{2n}}{2n!}\)
2. The expression $\ (\frac{(b - a)^{n}} {(n)!} f^{(n)}(c)) $ is called form of Reminder.
Schlomilch and Roche
Taylor and Lagrange's
Cauchy
>> Lagrange's
3. The expression \(\frac \{(b - a)^\{p} (b - c)^\{n - p}\} \{p.(n - 1)!\} f^\{(n)\}(c)\) is called forms of Reminder.
>> Schlomilch and Roche
Taylor and Lagrange's
Cauchy
Lagrange's
4. Let \(f: [0, h] \rightarrow R\) be a function such that exists for every positive integer n and for each \(x \in [0, h]\).
\(f^{(0)}(x)\)
>> \(f^{(n)}(x)\)
\(f^{(n-1)}(x)\)
\(f^{(2)}(x)\)
E. If two functions f and g are (i) continuous in [a, b] (ii) derivable in la, b[ and (iii)

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variable --->> constant  $\( \inf y )$ 6. The Lagrangeââ,¬â,,¢s mean value theorem states that the rate of change of a function over an interval is also the actual rate of change of the function at some point of the interval. --->> average constant interval chord 7. Lagrangeââ,¬â,,¢s mean value theorem is particular case of \_\_\_\_\_ if we choose the function g as  $g(x) = x \setminus (|x \mid x \mid [a, b])$ . Daboux mean value theorem --->> Cauchy¢â,¬â,,¢s mean value theorem Dirichlet theorem Intermediate mean value theorem 8. The expression \(\frac \{(b - a) (b - c)^\{n - 1\}\} \{(n - 1)!\} \f^\{(n)\\()\) is called \_\_\_\_\_\_ forms of Reminder. Schlomilch and Roche Taylor and Lagrange's --->> Cauchy Lagrange's 9. Obtain  $(f^{n}(x))$  of  $f(x) = \log(1 + x)$  for x > -1. \(\frac{x^{2}}{n}\\) \(\frac{x^{n-1}}{n!}\)

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 $((-1)^{n} \frac{x^{2n}}{2n!})$ 

10. What is the nth- term of the Maclaurin's infinte series expansion of  $(e^x \cdot R)$ ?

\(\frac{x^{2}}{n}\)
--->> \(\frac{x^{n}}{n!}\)
\(\frac{n!}{2}\)
\(x^{n}\)

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