

Taylor's Theorem

If a function $f(x)$ and its first $(n - 1)$ derivatives are continuous in (a, b) and $f_n(x)$ exists in (a, b) then there exists at least one point in 'c' in (a, b) such that

$$f(x) = f(a) + \frac{(b-a)}{1!} f'(a) + \frac{(b-a)^2}{2!} f''(a) + \frac{(b-a)^3}{3!} f'''(a) + \dots \dots \frac{(b-a)^n}{n!} f^n(c).$$

Where $f'(a)$ is the first derivative of $f(x)$ at $(x = a)$, $f''(a)$, $f'''(a)$ are successive derivatives at $(x = a)$

Taking $b - a = h$ and $c = a + \theta h$ where $\theta = \frac{c-a}{b-a}$ and we observe that $0 < \theta < 1$.

Hence Taylor's theorem becomes

$$f(a + h) = f(a) + \frac{h}{1!} f'(a) + \frac{h^2}{2!} f''(a) + \frac{h^3}{3!} f'''(a) + \dots \dots \frac{h^n}{n!} f^n(a + \theta h).$$

Maclaurin's Theorem

When $a = 0$ & $h = x$, we obtain Maclaurin's theorem.

$$f(x) = f(0) + \frac{h}{1!} f'(0) + \frac{h^2}{2!} f''(0) + \frac{h^3}{3!} f'''(0) + \dots \dots \frac{h^n}{n!} f^n(\theta x).$$

Deducing Taylor's Series and Maclaurin's Series

The general term i.e., remainder R_n after 'n' terms can be written as

$$R_n = \frac{h^n}{n!} f^n(a + \theta h)$$

Let $a + h = x$ or $h = x - a$, if 'x' is close enough to 'a' then 'h' will be very small i.e., $R_n \rightarrow 0$ as $n \rightarrow \infty$

Taylor's Series

$$f(x) = f(a) + \frac{(x-a)}{1!} f'(a) + \frac{(x-a)^2}{2!} f''(a) + \frac{(x-a)^3}{3!} f'''(a) + \dots \dots$$

Maclaurin's Series

If $a = 0$ in Taylor's Series then

$$f(x) = f(0) + \frac{x}{1!} f'(0) + \frac{x^2}{2!} f''(0) + \frac{x^3}{3!} f'''(0) + \dots \dots$$

Note:

The terms $f(x)$ and $y(x)$ are analogous.

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Bender, Steven A. Orszag, 2013-03-09 The triumphant vindication of bold theories are these not the pride and justification of our life s work Sherlock Holmes The Valley of Fear Sir Arthur Conan Doyle The main purpose of our book is to present and explain mathematical methods for obtaining approximate analytical solutions to differential and difference equations that cannot be solved exactly Our objective is to help young and also established scientists and engineers to build the skills necessary to analyze equations that they encounter in their work Our presentation is aimed at developing the insights and techniques that are most useful for attacking new problems We do not emphasize special methods and tricks which work only for the classical transcendental functions we do not dwell on equations whose exact solutions are known The mathematical methods discussed in this book are known collectively as asymptotic and perturbative analysis These are the most useful and powerful methods for finding approximate solutions to equations but they are difficult to justify rigorously Thus we concentrate on the most fruitful aspect of applied analysis namely obtaining the answer We stress care but not rigor To explain our approach we compare our goals with those of a freshman calculus course A beginning calculus course is considered successful if the students have learned how to solve problems using calculus **Elementary Differential**

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