

Formulas of chapter no 2

Exercise : 2.1

Steps to solve a questions

Methods of solving questions

1 : differentiation 2 : first principle 3 : AB_initio

Step 1 : $y + \delta y = f(x + \delta x)$

Step 2 : $\delta = f(x + \delta x) - y$
 $\delta y = f(x + \delta x) - f(x)$

Step 3 : $\frac{\delta y}{\delta x} = \frac{f(x + \delta x) - f(x)}{\delta x}$

Step 4 : $\lim_{\delta x \rightarrow 0} \frac{\delta y}{\delta x} = \lim_{\delta x \rightarrow 0} \frac{f(x + \delta x) - f(x)}{\delta x}$

Formula

$$(1 + x)^n = 1 + nx + \frac{n(n-1)}{2!}x^2 + \frac{n(n-1)(n-2)}{3!}x^3 + \dots$$

Note : these formulas are used in 2.1 and 2.2 both exercise

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