

Course
&
Test Series

Self-Made Assignment - MS Word

Working with Equations in MS Word

QUESTION NO. 1

$$\begin{aligned} \lim_{x \rightarrow 3} \left[\left(4x - \frac{2}{x-3} \right) (6 + x - x^2) \right] \\ &= \lim_{x \rightarrow 3} \left[24x + 4x^2 - 4x^3 - \frac{12 + 2x - 2x^3}{x-3} \right] \\ &= \lim_{x \rightarrow 3} \left[-4x^3 + 4x^2 + 24x - \frac{-2x^3 + 6x - 4x + 12}{x-3} \right] \\ &= \lim_{x \rightarrow 3} \left[-4x^3 + 4x^2 + 24x - \frac{(-2x-4)(x-3)}{x-3} \right] \\ &= \lim_{x \rightarrow 3} [-4x^3 + 4x^2 + 24x + 2x + 4] \\ &= \lim_{x \rightarrow 3} [-4x^3 + 4x^2 + 26x + 4] \\ &= -4(3)^3 + 4(3)^2 + 26(3) + 4 \\ &= -108 + 36 + 78 + 4 \end{aligned}$$



-  CBSE
-  ICSE
-  NTSE
-  Banking & Insurance
-  Central Govt. Service
-  State Govt. Services
-  LAW Entrance
-  MBA Entrance
-  Railways & Metro Services
- ...many more

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