

$$= \lim_{x \rightarrow 0} \frac{2 \sin \frac{x}{2} \cos \frac{x}{2}}{\sqrt{2} \sin \frac{x}{2}} = \lim_{x \rightarrow 0} \sqrt{2} \cos \frac{x}{2} = \sqrt{2}$$

6. $\lim_{x \rightarrow 0} \frac{\tan x - \sin x}{x^2 \tan x}$

Sol. We have $\frac{\tan x - \sin x}{x^2 \tan x} = \frac{\frac{\sin x}{\cos x} - \sin x}{x^2 \cdot \frac{\sin x}{\cos x}} = \frac{\sin x (1 - \cos x)}{x^2 \sin x} = \frac{1 - \cos x}{x^2}$

Now, $\lim_{x \rightarrow 0} \frac{\tan x - \sin x}{x^2 \tan x} = \lim_{x \rightarrow 0} \frac{1 - \cos x}{x^2} \quad \left(\frac{0}{0}\right)$

$$= \lim_{x \rightarrow 0} \frac{\sin x}{2x} = \frac{1}{2} \lim_{x \rightarrow 0} \frac{\sin x}{x} = \frac{1}{2} \cdot 1 = \frac{1}{2}$$

7. $\lim_{x \rightarrow 1} \frac{nx^n + 1 - (n+1)x^n + 1}{(x-1)^2}$

Sol. $\lim_{x \rightarrow 1} \frac{nx^n + 1 - (n+1)x^n + 1}{(x-1)^2} \quad \left(\frac{0}{0}\right)$

$$= \lim_{x \rightarrow 1} \frac{n(n+1)x^n - n(n+1)x^{n-1}}{2(x-1)} \quad \left(\frac{0}{0}\right)$$

$$= \frac{n(n+1)}{2} \lim_{x \rightarrow 1} \frac{x^n - x^{n-1}}{x-1} = \frac{n(n+1)}{2} \lim_{x \rightarrow 1} \frac{x^{n-1}(x-1)}{x-1}$$

$$= \frac{n(n+1)}{2} \lim_{x \rightarrow 1} (x^{n-1}) = \frac{n(n+1)}{2} \cdot 1 = \frac{n(n+1)}{2}$$

8. $\lim_{x \rightarrow 0} \frac{e^x - 2 \cos x + e^{-x}}{x \sin x} \quad \left(\frac{0}{0}\right)$

Sol. $\lim_{x \rightarrow 0} \frac{e^x - 2 \cos x + e^{-x}}{x \sin x} = \lim_{x \rightarrow 0} \frac{e^x + 2 \sin x - e^{-x}}{x \cos x + \sin x} \quad \left(\frac{0}{0}\right)$

$$= \lim_{x \rightarrow 0} \frac{e^x + 2 \cos x + e^{-x}}{-x \sin x + \cos x + \cos x}$$

$$= \lim_{x \rightarrow 0} \frac{e^x + 2 \cos x + e^{-x}}{-x \sin x + 2 \cos x} = \frac{4}{2} = 2$$

9. $\lim_{x \rightarrow 0} \frac{\ln(1-x^2)}{\ln \cos x} \quad \left(\frac{0}{0}\right)$

Analytical Calculus

KJ Lindholm-Leary



Analytical Calculus:

Reviewing **Analytical Calculus**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Analytical Calculus**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ...