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

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

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

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

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

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

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

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

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

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

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

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

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

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

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# Analytical Calculus

H Kauffman

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