

$$K_\nu(z) = \sqrt{\frac{\pi}{2z}} e^{-z} \sum_{r=0}^{\infty} \frac{\Gamma(\nu+r+1/2)}{r! \Gamma(\nu-r+1/2)} (2z)^{-r}$$

is a divergent asymptotic series

$$= \sqrt{\frac{\pi}{2z}} e^{-z} \left[1 + \frac{(\nu+1/2)(\nu-1/2)}{2z} + \frac{(\nu+3/2)(\nu+1/2)(\nu-1/2)(\nu-3/2)}{2! (2z)^2} + \dots \right]$$

Series terminates for $\nu = \pm \frac{1}{2}, \pm \frac{3}{2}, \dots$

$$x = \frac{1}{z} \quad \rightarrow \quad \frac{d}{dz} = -x^2 \frac{d}{dx} \quad \frac{d^2}{dz^2} = 2x^3 \frac{d}{dx} + x^4 \frac{d^2}{dx^2}$$

$$R''(z) + \frac{1}{z} R'(z) - \left(1 + \frac{\nu^2}{z^2}\right) R = 0 \quad \rightarrow \quad x^4 R''(x) + x^3 R'(x) - (1 + \nu^2 x^2) R(x) = 0$$

$$R''(x) + \frac{1}{x} R'(x) - \frac{1}{x^2} \left(\nu^2 + \frac{1}{x^2} \right) R(x) = 0$$

$$\lim_{x \rightarrow 0} (x-0)^2 \left[-\frac{1}{x^2} \left(\nu^2 + \frac{1}{x^2} \right) \right] = -\infty \quad \rightarrow \quad z = \infty \text{ is an essential singularity}$$

$\therefore$ No convergent series solution about $z = \infty$.

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Mark Steyvers



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