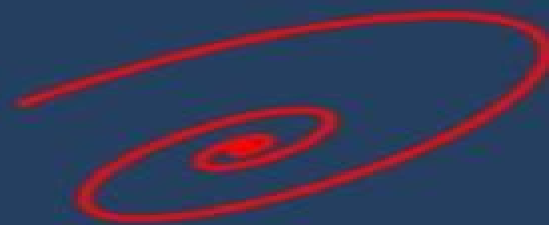
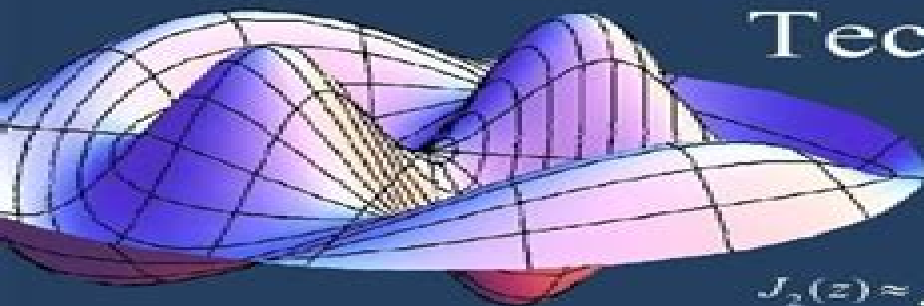


$$\ln \Gamma(1+\varepsilon) = -\gamma\varepsilon + \sum_{n=2}^{\infty} (-1)^n \frac{\zeta(n)}{n} \varepsilon^n$$

$$-\left(\frac{\partial S}{\partial p}\right)_T = \left(\frac{\partial V}{\partial T}\right)_p$$



Advanced Mathematical Techniques



$$J_2(z) \approx \sqrt{\frac{2}{\pi\sqrt{z^2-4}}} \cos\left[2\text{Arc cos}\frac{2}{z} - \sqrt{z^2-4} + \frac{\pi}{4}\right]$$

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$$\int_0^{\pi/2} \ln \sin x \, dx = -\frac{\pi}{2} \ln 2$$

$$\int_0^{\infty} \frac{\ln^2 x}{x^3+1} \, dx = \frac{10\pi^3}{81\sqrt{3}}$$



Jonathan A. Osborne

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Paul DuChateau



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