15 Giugno 2021

$$\begin{vmatrix}
1 & 1 & 1 & (3 - 3n^{2}) \\
0 + & 3 & (3 - 3n^{2})
\end{vmatrix} = -00$$

$$\begin{vmatrix}
1 & 1 & 3 & (3 - 3n^{2}) \\
3 & 1 & 2 & (3 - 3n^{2})
\end{vmatrix} = 0 \iff n = +\sqrt{3}$$

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$$\begin{vmatrix}
1$$

$$f(\sqrt{3}) = \ln (3\sqrt{3} - 3\sqrt{3}) = \ln 6\sqrt{3}$$

$$n = \sqrt{3}$$

$$p = \ln (3\sqrt{3} - 3\sqrt{3}) = \ln 6\sqrt{3}$$

$$\ln (6\sqrt{3})$$

$$\frac{2}{1 + \frac{2}{3}}$$

$$\frac{e}{n + \frac{2}{3}}$$

$$\frac{2}{1 + \frac{2}{3}}$$

$$n \rightarrow 0$$

$$n \rightarrow 0$$

$$n \rightarrow 0$$

$$n \rightarrow 0$$

$$1 - \frac{n}{2} + o(n^{3})) =$$

$$n corn = n \left(1 - \frac{n}{2} + o(n^3)\right)$$

$$= n - \frac{n^3}{2} + o(n^4)$$

$$= n corn$$

$$e^{n(s)} = 1 + \left(n - \frac{n^{3}}{2} + o(n^{4})\right) + \frac{1}{2} \left(n - \frac{n^{3}}{2} + o(n^{4})\right)^{2} + \frac{1}{2} \left(x + \frac{n^{4}}{2}\right)^{2}$$

$$+ \frac{1}{2!} \left(n - \frac{n^{3}}{2} + o(n^{4})^{2} + \frac{1}{3!} \left(x + o(n^{2}) \right)^{3} \right)$$

$$= 1 + n - \frac{n^{3}}{2} + \frac{1}{2} \left(n^{2} - n^{4}\right) + \frac{n^{3}}{6} + \frac{n^{4}}{24} + o \left(n^{4}\right)$$

 $= 1 + n + \frac{n^{2}}{2} - \frac{n^{3}}{3} - \frac{11}{24}n^{4} + o(x^{4})$

$$e^{n \cos r n} = 1 + \left(n - \frac{n^{3}}{1} + o(n^{4})\right) + \frac{1}{2!} \left(n - \frac{n^{3}}{1} + o(n^{4})\right)^{2} + \frac{1}{3!} + \frac{1}{4!} \left(n + o(n^{4})\right)^{4} = 1 + n + n^{3} + 1 + n + n^{3} + 1 +$$

$$e^{\int_{-\infty}^{\infty} \frac{1}{n} \ln n} = 1 + \int_{-\infty}^{\infty} \frac{1}{n} \ln n + \int_{-\infty}^{\infty}$$

$$= 1 + n - \frac{n^{3}}{6} + \frac{n^{3}}{2} - \frac{n^{4}}{6} + \frac{n^{3}}{6} + \frac{n^{3}}{6} + \frac{n^{4}}{24} + o(n^{4})$$

$$= 1 + n + \frac{n^{3}}{2} - \frac{n^{4}}{8} + o(n^{4})$$