$$S(x) = \frac{1}{2} \int_{-\infty}^{\infty} dx + \frac{1}{2} \int_{-\infty}^{\infty} dx$$

$$= -\frac{1}{2} \ln |1-x| + \frac{1}{2} \ln |1+x| + C \qquad \times E(-1,1)$$

$$= \frac{1}{2} \ln \frac{1+x}{1-x} + C$$

$$S(0) = 0 \Rightarrow C = 0 \qquad S(x) = \frac{1}{2} \ln \frac{1+x}{1-x} \times E(-1,1)$$

$$\sum_{n=0}^{\infty} \frac{n+1}{n!} (\frac{1}{2})^n = \frac{3}{2} \sqrt{2} \qquad \times e^x = \sum_{n=0}^{\infty} \frac{1}{n!} \times^n + X$$

$$S(x) = \sum_{n=0}^{\infty} \frac{n+1}{n!} \times^n \qquad \int S(x) dx = \sum_{n=0}^{\infty} \frac{1}{n!} \times^{n+1} = xe^x$$

$$S(x) = (xe^x)^1 = xe^x + e^x \qquad S(\frac{1}{2}) = \frac{3}{2} e^{\frac{1}{2}} = \frac{3}{2} \sqrt{2} e^x$$

$$f(x) = \int_0^x \frac{\ln(1+t)}{t} dt \qquad \text{t $x = x $ $x = x $}$$

$$\ln(1+t) = t - \frac{t^2}{2} + \frac{t^2}{3} - \dots = \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} t^n$$

$$\lim_{n = 1}^{\infty} \frac{\ln(1+t)}{t} dt = \sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n} \times^n - 1 \in x \in I$$

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$$\sum_{n=1}^{\infty} a_n = \frac{1}{z}$$

$$\sum_{n=1}^{\infty} a_n = S_{(0)} - \frac{a_0}{z} = 1 - \frac{a_0}{z}$$

$$S(\frac{1}{2}) = \frac{3}{4}$$

$$= 2(1-\frac{1}{8})$$

$$\sum_{n=1}^{\infty} a_n = [-\frac{1}{2} \cdot 2:(1-\frac{1}{8}) = \frac{1}{8}$$

$$f(x)=x^2(x\in[0.1])$$
 正结版数 $\rightarrow S(x)$. $S(-\frac{S}{2})=?$

$$S(-\frac{5}{2}) = S(-\frac{1}{2})z - S(\frac{1}{2})$$

$$= -f(\frac{1}{2}) = -\frac{1}{4}$$

$$=-f(\frac{1}{2})=-\frac{1}{4}$$

$$\lim_{(x,y)\to(1,0)} \frac{xy-\ln(1+xy)}{(2x-1)y^2} + \lim_{(x,y)\to(1,0)} \lim_{(x,y)\to(1,0)} \frac{\ln(1+x)=x-\frac{x^2}{2}}{(2x-1)y^2}$$

$$\ln(1+x) = x - \frac{x^2}{2}$$

$$\frac{0-0}{\left(\frac{xy}{2}\right)^2} + o(\frac{xy}{2})$$

$$\frac{(xy)^{2}}{2} + o((xy)^{2}) = \frac{x^{2}}{2} = \frac{1}{2} \left(0(1) = 0\right)$$

$$f(x,y) = e^{\frac{x}{y}} + (y+1)x \cot x \frac{x-2}{x^2y} \qquad f_{\frac{x}{y}}(1,-y) = -\frac{1}{e}$$

$$f(x,y) = \begin{cases} \frac{\sin xy - y}{xy^2} & xy \neq 0 \\ 0 & xy = 0. \end{cases}$$

$$f(1,y) = \begin{cases} \frac{\sin y - y}{y^2} & y \neq 0. \end{cases}$$

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$$\frac{\partial u}{\partial x}|_{(1,0,1)} = \frac{1}{2}$$

$$du = d\int_{xy^{2}}^{x-y-3} e^{t^{2}} dt$$

$$= d\int_{0}^{x-y-2} e^{t^{2}} dt - d\int_{0}^{xy^{2}} e^{t^{2}} dt$$

$$= e^{(x-y-2)^{2}} d(x-y-2) - e^{(xy^{2})^{2}} d(xy^{2})$$

$$du|_{(1,0,1)} = \frac{1}{2} d(x-y-2) - \frac{1}{2} d(xy^{2}) d(xy^{2})$$

$$(dx-dy-d2-y20x-x2dy-xy^{2})|_{(1,0,1)}$$

$$= 1 \cdot dx - 2dy - 1 dz$$

$$\frac{\partial z}{\partial x} = \frac{1}{2} dx - \frac{1}{2} dx = \frac{1}{2} dx + \frac{1}{2} dx = \frac{1}{2} dx + \frac{1}{2} dx = \frac$$

$$\frac{2}{8} = f(x,u,v) \quad u = u(x) \quad v = v(x) \quad \int_{v}^{u} e^{t^{2}} dt = x$$

$$\frac{d^{2}}{dx} = \frac{1}{4} + \frac{1}$$

G(x,y,2) = x+y-2-4

$$\frac{\partial (F,G)}{\partial (y,+)} = \begin{vmatrix} 2y & -1 \\ 1 & 1 \end{vmatrix} = 2y+1$$

$$\frac{\partial (F,G)}{\partial (x,x)} = \begin{vmatrix} -1 & 2x \\ 1 & 1 \end{vmatrix} = -\frac{1}{2}$$

$$\frac{\partial (F,G)}{\partial (x,y)} = \begin{vmatrix} 2x & 2y \\ 1 & 1 \end{vmatrix}$$

$$\frac{\partial (F,G)}{\partial (x,y)} = \begin{vmatrix} 2x & 2y \\ 1 & 1 \end{vmatrix}$$