$$\lim_{X\to 0} \frac{\int_{\mathbb{R}^{2}} (x^{2}-x) - x^{2} + x}{x^{3}}$$

$$\lim_{X\to 0} \frac{(x^{2}-x)}{x^{3}} = \lim_{X\to 0} \frac{(x^{2}-x)}{x^{3}} = \lim_{X\to 0} \frac{(x^{2}-x)}{x^{3}} = \lim_{X\to 0} \frac{(x^{2}-x)}{x^{3}} = \lim_{X\to 0} \frac{(x^{2}-x)^{3} + o(x^{3})}{x^{3}} = \lim_{X\to 0} \frac{1}{6} (x^{2}-x)^{3} + o(x^{3}) = \lim_{X\to 0} \frac{1}{6} (x^{2}-x)^{3} + o(x^{3}-x)^{3} + o(x^{3}-x)^{3} = \lim_{X\to 0} \frac{1}{6} (x^{2}-x)^{3} + o(x^{3}-x)^{3} = \lim_{X\to 0} \frac{1}{6} (x^{2}-x)^{3} + o(x^{2}-x)^{3} + o(x^{2}-x)^{3} + o(x^{2}-x)^{3} = \lim_{X\to 0} \frac{1}{6} (x^{2}-x)^{3} + o(x^{2}-x)^{3} + o(x^{2}-$$

$$\int_{x\to 0}^{1+x} (1-\cos x + \log(1+x)-x)$$

$$\int_{1-x^{3}}^{3} -1$$

$$= \cos x = 1 - \frac{1}{2}x^{2} + \frac{1}{4!}x^{3} + o(x^{3})$$

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

 $\lim_{X \to 0} \frac{e(1-1)(1+\frac{1}{2}(1+\frac{1$

$$\lim_{x\to\infty} \frac{1-e^{x}+x}{\log(1+x^2)}$$

$$\lim_{x\to\infty} \frac{1-e^{x}+x}{\log(1+x^2)}$$

$$\lim_{x\to\infty} \frac{x+o(x^2)}{x+o(x^2)} + \frac{x+o(x^2)}{x+o(x^2)}$$

$$\lim_{x\to\infty} \frac{x+o(x^2)}{x^2+o(x^2)}$$

$$C^{\text{Rux}} = C^{\text{x+o}(x^2)}$$
= $1 + C^{\text{x+o}(x^2)} + C^{\text{x+o}(x^2)} + C^{\text{x+o}(x^2)}$
= $1 + C^{\text{x+o}(x^2)} + C^{\text{x+o}(x^2)} + C^{\text{x+o}(x^2)}$

= $1 + C^{\text{x+o}(x^2)} + C^{\text{x+o}(x^2)}$

$$\frac{2}{x} = \frac{1}{2} \times \frac{2}{x} + o(x^2)$$

$$= \frac{1}{2} \times \frac{2}{x} + o(x^2)$$

e - 1 - Sey (x-2) 1- (X-2) 1+x2+2(x-2)+0(x-2)-1-(x2+0/x-2) $1-(1-\frac{1}{2}(x-2)^2+o(x-2)^2)$ $\frac{1}{2}(\lambda-2)^2+o(\lambda-2)$ - Lum + = (x-5)+o(x-5)

$$\lim_{X \to 0} \frac{ram(x^{2}) - lag(1+x+x^{2}) + x - \frac{1}{2}x^{2}}{1 - e^{x^{3}}}$$

$$= -e^{x^{3}} - lag(1+x+x^{2}) = -e^{x^{3}} - lag(1+x+x^{2}) + e^{x^{3}}$$

$$= -e^{x^{3}} - lag(1+x+x^{2}) = -e^{x^{3}} - lag(1+x+x^{2}) + e^{x^{3}}$$

$$\lim_{X \to \infty} \frac{x^{2} + e^{x^{3}} - lag(1+x+x^{2}) + e^{x^{3}}}{3} + e^{x^{3}} + e^{x^{3}}$$

$$\lim_{X \to \infty} \frac{x^{2} + e^{x^{3}} + e^{x^{3}} - lag(1+x+x^{2}) + e^{x^{3}}}{3} + e^{x^{3}} + e^{x^{3}}$$

$$\lim_{X \to \infty} \frac{x^{2} + e^{x^{3}} + e^{x^{3}} + e^{x^{3}}}{3} + e^{x^{3}} + e^{x^{3}}$$

$$\lim_{X \to \infty} \frac{x^{2} + e^{x^{3}} + e^{x^{3}} + e^{x^{3}}}{3} + e^{x^{3}} + e^{x^{3}} + e^{x^{3}}$$

$$\lim_{X \to \infty} \frac{x^{2} + e^{x^{3}} + e^{x^{3}} + e^{x^{3}}}{3} + e^{x^{3}} + e^{x^{3}} + e^{x^{3}}$$

$$\lim_{X \to \infty} \frac{x^{3} + e^{x^{3}} + e^{x^{3}}}{3} + e^{x^{3}} + e^{x^{3}}$$