

$$\frac{1}{12} \frac{1}{12} \frac$$

表现外

$$LX + \frac{1}{8}X^5 + D CXD - LX - \frac{X^3}{3!} + O (X^3)) = \frac{1}{3}$$

$$\lim_{\kappa \to 0} \frac{2^{\kappa} + \sin^2 (\kappa) - 1}{\kappa} = 0$$

$$\lim_{x\to 0} 2^{x} \ln 2 + 2\cos 2x = 2 + 2\ln 1$$

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(3)

$$\frac{e^{x} + \omega_{5}x - 2}{x \text{ arcsinx}} = \frac{e^{x^{2}} - 1 + \omega_{5}x - 1}{2x^{2}}$$

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

= x- aresinx

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$$=\frac{1-C1-\chi^{2}}{3\chi^{2}}$$

$$=\frac{1}{3}\left[\lim_{\chi\to0}\frac{C1-\chi^{2}}{\chi^{2}}\right]$$

$$C \left(\frac{1+x}{x} \right)^{2} - 3x + 1$$

$$x - 3x$$

$$\lim_{x \to \infty} \frac{\ln \frac{\sin x}{x}}{x} = 0$$

$$x - 3x$$

$$\lim_{x \to \infty} \frac{\ln \frac{\sin x}{x}}{x} = 0$$

$$\lim_{x\to\infty} \sqrt{1+x\omega sx} - \sqrt{1+x}$$

$$= \frac{1}{x^{3}}$$

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

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$$\lim_{\chi \to 0} (l - \chi^2)^{\frac{1}{\chi} \leq l}$$

$$= \frac{1}{x \sin x} \left[n \cos^{2} x^{2} \right] = e^{\frac{-2x}{\sin x}} = e^{-2}.$$
(2) $\lim_{x\to 0} (2^{x} + \sin x) e^{ix} = e^{\frac{1}{2x}} = e^{\frac{1}{2x}} = e^{-2}.$

- (cx+1) arcsit 2x)

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$$\lim_{\chi \to \infty} C \int_{\mathbb{N}} d^{2} \sqrt{x} - \int_{\mathbb{N}} - F_{N}$$

$$= \frac{3 \sqrt{x}}{1 + \frac{2}{x}} + \sqrt{x - f_{N}} = \frac{3}{x}$$

$$\lim_{x \to -\infty} \int_{x^{2}-2x^{2}} \frac{1}{x^{2}-2x^{2}} = \frac{-2x^{2}x^{2}}{\sqrt{x^{2}-2x^{2}}} = \frac{-2x^{2}}{\sqrt{x^{2}-2x^{2}}} = \frac{-2x^{2}}{\sqrt{x^{2}-2x^{2}}} = \frac{-2x^{2}}{\sqrt{x^{2}-2x^{2}}} = \frac{-2x^{2}}{\sqrt{x^{2}-2x^{2}}} = \frac{-2x^{2}}{\sqrt{x^{2}-2x^{2}}} = \frac{-2x^{2}}}{\sqrt{x^{2}-2x^{2}}} = \frac{-2x^{2}}{\sqrt{x^{2}-2x^{2}}} = \frac{-2x^{2}$$

X70 [In Citx) -x

