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giovedì 29 marzo 2018 14:14

$$dem(): \begin{cases} \times \neq 1 \\ \times > 0 \end{cases} dem() = (0,1)V(1,+\infty)$$

$$\lim_{x\to 0^+} \frac{\log x}{x-1} = \frac{-\infty}{-1} = \frac{1}{100} \to x=0 \text{ withfull}.$$

·
$$\lim_{x\to 1^-} \frac{\log x}{x-1} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$
 Hopstet $\lim_{x\to 1^-} \frac{1}{x} = \frac{1}{1} = \boxed{9}$

.
$$\lim_{x \to \infty} \frac{f(x)}{x} = \frac{\log x}{x^2(1-x^2)} = \frac{\log x}{x^2(1-x^2)} = \frac{\log x}{\log x}$$

$$f:(0,+\infty)\rightarrow\mathbb{R}$$
 $f(x)=\frac{2\cos x-\sin(x^2)-z}{x^3}$ if limit to ?

$$2\left(1-\frac{x^{2}}{2}+\frac{x^{4}}{24}+O(x^{4})\right)-x^{2}+O(x^{4})-2$$

$$\frac{2^{2}-x^{2}+\frac{x^{4}}{12}+9(x^{5})-x^{2}+9(x^{5})-x^{2}}{x^{3}}$$

$$\frac{2^{2}}{2^{4}} \times \frac{3}{12} \times \frac{$$

$$Am = \left(\frac{m^2 + 2}{m^2 - 3m}\right) \quad \text{con. } M \geqslant 4 \quad \text{mox, nim ?}$$

5

$$\lim_{M\to 20} (1-(-1)^{m}) M^{((-1)^{m})} = \lim_{M\to 20} (1-(-1)^{m}) M^{((-1)^{m})} = \lim_{M\to 20} (1-1) \cdot 2M = 0$$

• $\lim_{M\to 20} 2m (por) \Rightarrow \lim_{M\to 20} (1-1) \cdot 2M = 0$

• $\lim_{M\to 20} 2m+1 (dapor) \Rightarrow \lim_{M\to 20} (1+1) \cdot (2m+2) = \frac{1}{1+00} \Rightarrow 0$

$$\lim_{n\to\infty} \frac{m^3 - m!}{e^m - m^4} \qquad \lim_{n\to\infty} \frac{m^2 \cdot m^2}{m!} \longrightarrow 0 \Longrightarrow \text{He max man harmin}$$

$$\lim_{n\to\infty} \frac{m!}{e^m \cdot m!} = 0 \Longrightarrow 0$$

$$y(x) = e^{-\log x} \left(\int e^{\log x} \cdot 1 \, dx + c \right) = \frac{1}{x} \left(\frac{x^2}{2} + c \right) = \left[\frac{x}{2} + \frac{c}{x} \right]$$

$$y(x) = -5 \Rightarrow 1 + \frac{c}{2} = -5 \Rightarrow \frac{2+c}{2} = \frac{-10}{2} \Leftrightarrow c = -12$$

$$y(x) = \frac{x}{2} - \frac{12}{x} \Rightarrow y(5) = \frac{5}{2} - \frac{12}{5} = \frac{25 - 24}{10} - \frac{1}{10} \Rightarrow B \lor$$