Jul. 2019

$$2 = \sum_{\infty} t_{(w)}(\underline{x}^{0}) \cdot \frac{w_{i}}{(x-x^{0})_{w}} = \sum_{\infty} t_{(w)}(0) \cdot \frac{w_{i}}{x_{w}}$$

$$4 \cdot (-3\cdot3) - 16^{1} + (x) = \int_{0}^{\infty} \frac{3-x}{x_{w}} \cdot \frac{x_{w}}{x_{w}} = 0$$

$$\frac{3-x}{x+3} = \mu (3+x) - \mu (3-x)$$

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

$$A_{\mu}(x) = (-7) \cdot (3+x) + (3-x)_{-3}$$

$$p = yv 5 - yv 5 = 0 \qquad (2uqrq.5)$$

$$f_{(u)}(x) = (-1) \cdot (u-1) \cdot (5+x) + (u-1) \cdot (5-x)^{2} \cdot u^{2} \cdot 1$$

$$f_{(u)}(x) = (-1)(-5) \cdot (5+x)^{2} + 1 \cdot 5 \cdot (5-x)^{2}$$

$$\frac{3w}{(w-1)!} \left((-7)_{w+q} + 7 \right) = \begin{cases} \frac{3w-7}{(w-1)!} & w \text{ imbar} \\ \frac{3w}{(w-1)!} & 0 & w \text{ bar} \end{cases}$$

$$= \frac{3w}{(w-1)!} \left((-7)_{w+q} + 7 \right) = \begin{cases} 0 & w \text{ bar} \\ 0 & w \text{ bar} \end{cases}$$

$$\frac{3w-7}{(w-1)!} & w \text{ bar}$$

$$2 - \frac{\omega = 0}{2} \frac{(3m+1)^{1/2}}{3m+1} = \frac{3^{2m}}{2} \frac{3^{2m}}{3m+1} = \frac{3^{2m}}{2} \frac{3^{2m}}{3m+1}$$

(2)
$$J(x) = \int_{0}^{1} \frac{x-1}{x^{2}-1} dx$$
, $J(3) = ?$

charm pl. in 1.

$$4: [0, v] \rightarrow \mathbb{R}^{+}, \quad \frac{x-1}{x-1} = \lim_{x \to 1} \frac{x-1}{x-1}$$

$$1 = \lim_{x \to 1} (x-x), \quad \frac{x-1}{x-1} = \lim_{x \to 1} \frac{x-1}{x-1} = \lim_{x \to 1} \frac{x-1}{x-1}$$

$$3 < \sqrt{1}$$

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$$= \lim_{x \to \infty} \frac{1}{d \cdot x^{d-1}} = \frac{d}{d} < \infty, \quad pt. ca' d > \infty$$

$$J(3) = \int_{0}^{1} \frac{x^{-1}}{x^{3}-1} dx = \int_{0}^{1} \frac{x^{-1}}{(x^{-1})(x^{2}+x+1)} dx =$$

$$= \int_{0}^{1} \frac{x^{2} + x + 1}{x^{2} + x + (\frac{1}{2})^{2} + \frac{3}{4}} dx = \int_{0}^{1} \frac{x^{2} + x + (\frac{1}{2})^{2} + \frac{3}{4}}{x^{2} + x + (\frac{1}{2})^{2} + \frac{3}{4}} dx =$$

$$= \int_{0}^{1} \frac{1}{(x+\frac{1}{2})^{2} + (\frac{13}{2})^{2}} dx = \frac{3}{15} \text{ and } \left(\frac{3x+\frac{1}{2}}{\frac{15}{2}}\right)_{0}^{1} =$$

$$= \frac{2}{\sqrt{5}} \left(\text{ auty } \sqrt{3} - \text{ auty } \frac{1}{\sqrt{5}} \right) = \frac{2}{\sqrt{3}} \left(\frac{1}{5} - \frac{11}{6} \right) = \frac{2}{\sqrt{5}}, \frac{11}{6} = \frac{2}{3\sqrt{5}}.$$

$$\exists t \cdot \underline{B}(o^{5/4}) \to \mathbb{R}^{1} \quad \text{fray} = \begin{cases} 0 & (x^{3/2} = (0,0) \\ \frac{x^{5/4}y^{5/2}}{3} & (x^{3/2} = (0,0)) \end{cases}$$

a) A.ca & cent. in (0,0).

fcont.in (a0) (=) } lim f(24y) = \$(0,0) = 0.

$$\left|\frac{x_3+y_3}{x_3+y_3}-0\right|=\frac{x_5+y_5}{\left|x_3+y_3\right|} \leq \frac{x_5+y_5}{\left|x_3\right|+\left|y_3\right|} =$$

$$= \frac{x_5 + \lambda_5}{|x|_3} + \frac{x_5 + \lambda_5}{|\lambda|_3} = \frac{x_5 + \lambda_5}{|x|_5 + |x|_5} + \frac{x_5 + \lambda_5}{|\lambda|_5} =$$

=77 cond. in 02.

b) Valorile erstreme ale lui f. Le oting?

Acompactà (marg.+inchisa) J. Meierstrans font.

extremele pe A.

B(02, 7) = }(222) 002/25+43 5 43 A conclusa, A = boot A U fe A

, ThA = { (264) ER2 / 224 y2=1} Exy 2 Fallow) } = A toni

$$\begin{aligned}
& (x+a) \left[(x+a)_3 + 57 \right] = 0 & 57 = -(x+a)_3 & (x=a)_3 + 5x = 0 \\
& (x-a) (x+a)_3 + 57 (x-a) = 0 & (x-a)(x+a) + 57 (x-a) = 0 \\
& (x-a) (x+a) (x-a)_3 + 5x = 0 & (x-a)(x+a) + 57 (x-a) = 0 \\
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& (x-a) (x+a)_3 + 5x = 0 & (x-a)(x+a)_3 + 5x$$

* 21 = - (x+y)3 $= \sum_{\xi \in \mathcal{I}} x_{1} + 3 x_{2} n_{3} - 5 x (x + n_{3}) = 0$

Br (- 12 , - 25y), Br (12 , 15y)

f(0,-1) = -1 f(0,-1) = -1 f(0,-1) = -1

b) Fox. ris fundamental ni memoraten.

(considery)
$$|x - x - y - y| = |(-1)^{x}| = \frac{1}{x} < \xi = x \text{ with } 0$$

 $\frac{1}{\alpha} \leq \frac{1}{\alpha_0} \leq \frac{1}{\alpha_0} \leq \frac{1}{\alpha_0} \leq \frac{1}{\alpha_0}$