lunedì 19 dicembre 2022 08:5

$$\int \frac{d\pi}{e^{4} \cdot 16} = \int \frac{e^{x}}{e^{x} \cdot (e^{x} + 5)} d\pi = \left( \int \frac{dt}{t \cdot (1 + 15)} \right)_{t=e^{x}}$$

$$\frac{1}{t \cdot (1 + 15)} > \frac{A}{t} + \frac{B}{t \cdot 15}$$

$$\int \cos^{2} \pi \, d\pi = \int \cos \pi \, \left( 1 - \sin^{2} \pi \right)^{3} \, d\pi = \left[ \int \left( 1 - t^{2} \right)^{3} \, dt \right]$$

$$\int \cos^{3} \pi \, d\pi = \int \left( \frac{1 + \cos 2\pi}{2} \right)^{4} \, d\pi$$

$$\int \sin^{2} x \, dx = -\int \left(\sin x\right) \left(1 - \cos^{2} x\right)^{2} \, dx = -\int \left(1 - t^{2}\right)^{2} \, dt$$

$$\int \sin^{2} x \, dx = -\int \left(\frac{1 - \cos x}{2}\right)^{2} \, dx$$

$$\int \sin^5 n \cos^7 n \, dn = \int \cos n \cdot \sin^5 n \, (4 - \sin^2 n)^3 \, dn =$$

$$= \left[ \int t^5 \left( 1 - t^2 \right)^3 \, dt \right]_{t=31 \text{ mm}}$$

of). 
$$-\int (-\sin \pi) (1-\cos^2 \pi)^2 \cos^2 \pi d\pi = -\left[\int (1-\xi^1)^2 \xi^2 d\xi\right]_{\xi=\cos \pi}$$

$$fRA = G \frac{d\xi(\pi)}{d(\pi)}$$

se 
$$d = b + ic$$
 and  $b - ic$   $e^{-ic}$   $e^{-ic}$  con le stesse molteflicità
$$\left[ x - (b + ic) \right] \left[ x - (b - ic) \right] = \left( (x - b) - ic \right) \left[ (x - b) + ic \right] =$$

$$= (x - b)^2 - (ic)^2 = (x - b)^2 + c^2 > 0$$

$$\frac{A_1}{n-3} \frac{A_2}{(n-3)^2} \frac{A_3}{n} \frac{B_1 n + C_1}{n^2 + 5} \frac{(n-1)^2 + \frac{1}{4}}{(n-2)^4 + \frac{1}{4}} \frac{B_3 n + C_3}{(n-2)^4 + \frac{1}{4}} \frac{B_6 n + C_4}{(n-2)^2 + \frac{1}{4}} \frac{B_6 n + C_4}{(n-2)^2 + \frac{1}{4}}$$

$$\int \frac{dn}{(n-1)^2+1} = \frac{1}{\sqrt{1}} \text{ and } \frac{n-1}{\sqrt{1}} + 6$$

$$\int \frac{dn}{(n^{2}+c^{4})^{2}} = \frac{1}{(n^{2}+c^{4})^{2}}$$

$$\int \frac{dn}{(n^{2}+c^{4})^{2}} = \frac{1}{c^{4}} \int \frac{c^{4}+n^{2}-n^{2}}{(n^{2}+c^{4})^{2}} dn = \frac{1}{c^{4}} \int \frac{dn}{(n^{2}+c^{4})^{4}} + \frac{1}{c^{4}} \frac{1}{c^{4}} \int \frac{-2n}{(n^{2}+c^{4})^{4}} dn$$

$$\int \frac{dn}{(n^{2}+c^{2})^{2}} = \frac{1}{c^{2}} \int \frac{c^{2}+n^{2}-n^{2}}{\left(\begin{array}{c} \\ \end{array}\right)^{2}} dn = \frac{1}{c^{2}} \int \frac{dn}{(n^{2}+c^{2})} + \frac{1}{c^{2}} \frac{1}{2} \int \frac{-2n}{(n^{2}+c^{2})^{2}} \cdot x dn$$

$$0$$

$$0$$

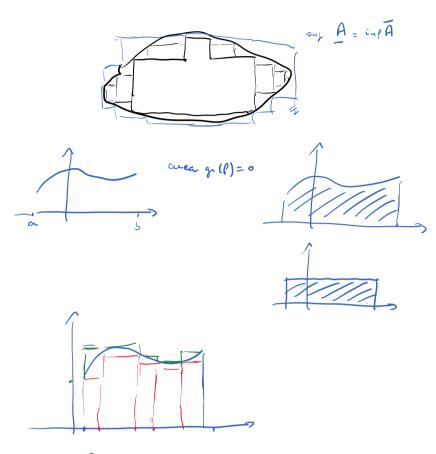
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\$ JGR. CUNT. INTEGRALE

$$\frac{f(a) - f(a)}{a - c} = \frac{\int_{c}^{a} f(b) db}{a - c} = \frac{\int_{a}^{c} f(b) db}{a - c} = \frac{\int_{a}^{c$$

$$f(x) = \int_{x}^{t} e^{\frac{t}{2}} dt = -\int_{t}^{x} e^{\frac{t}{2}} dt \qquad f'(x) = -e^{-\frac{t}{2}}$$

$$f(x) = \int_{x}^{\cos x} e^{\frac{t}{2}} dt = \int_{0}^{x} --4 \int_{0}^{\cos x} e^{-\frac{t}{2}} dt = \int_{0}^{3\pi + 1} -4 \int_{0}^{\cos x} e^{-\frac{t}{2}} dt = \int_{0}^{3\pi + 1} e^{-\frac{t}{2}} dt = \int_{0}^{3\pi + 1}$$

$$f'(c) = 0$$

$$f'(c) = e^{x^{2}} \qquad f'(c) = e^{36}$$

from di 
$$e^{a^{2}}$$
 -late the  $f(C) = 2$ 

$$\int_{L}^{a} e^{b^{2}} dt = \int_{L}^{a} e^{b^{2}} dt + h = 2 \quad f(z) = 2$$

$$I = \int \frac{(n-2) \log \frac{n+3}{n} dn}{dn} = \left(\frac{\frac{\pi^{2}}{2} - 2\pi}{2}\right) \log \frac{n+3}{n} - \int \frac{\pi^{2} - 4\pi}{2} \frac{\pi^{2} - 2\pi}{n} \log \frac{\pi^{2} - 2\pi}{n} = \left(\frac{\pi^{2}}{2} - 2\pi\right) \log \frac{n+3}{n} + \frac{3}{2} \int \frac{\pi^{2} - 4\pi}{n^{2} + 3\pi} dn$$

$$I = \int \frac{\pi^{2} - 4\pi}{2} \log \frac{n+3}{n} + \frac{3}{2} \int \frac{\pi^{2} - 4\pi}{n^{2} + 3\pi} dn$$

$$\frac{x^{2}-4x}{x^{2}+3x} = \frac{x^{2}+3x-3x}{x^{2}+3x} = x - \frac{x}{x}$$

$$\int x^{\frac{1}{2}} \cosh x \, dx = \frac{\sin hx}{h} x^{\frac{1}{2}} - \int \frac{\sinh hx}{h} x \, dx = \frac{\sin hx}{h} x^{\frac{1}{2}} + \frac{1}{2} \int (-\sin hx) x \, dx = \frac{\sin hx}{h} x^{\frac{1}{2}} + \frac{\cosh hx}{8} - \frac{1}{2} \int \cos hx \, dx = \frac{\sinh hx}{h} x^{\frac{1}{2}} + \frac{\cosh hx}{8} - \frac{1}{2} \int \cos hx \, dx = \frac{\sinh hx}{h} x^{\frac{1}{2}} + \frac{\cosh hx}{8} - \frac{\sinh hx}{8} + \frac{\cosh hx}{8} + \frac{\sinh hx}$$

$$\int \frac{dx}{dx} = \int \frac{1 + \frac{1}{1} \cdot x}{4 \cdot x^{1 + 1} \cdot x^{1 + 1}} dx = \left[ \int \frac{dx}{dx} + \frac{1}{1 \cdot x^{1 + 1}} \right]_{x=1}^{x=1}$$

y funzione incognita

ep diff del 
$$5$$
 and  $5$ :  $f: X \subseteq \mathbb{R}^2 \to \mathbb{R}$   $f(x,y)$ 

$$y' = f(x,y) \qquad (1)$$

i la ricerca d'una funt. y(x) def in un interv. (a,6)
derivable a tale de V x e (a,6)

y soluzione o integral della (1)

int. generale = ins di tulle le sol.

i jarticlare = une sol.

$$(30.16) \in X$$
  $\begin{cases} y' = f(3ky) \\ y(3ky) = y_0 \end{cases}$  PROBLEMA DI CAUCHY