lunedì 12 dicembre 2022

Aserciai onge int. indef.

$$\int \frac{3}{(n+2)^{2}} \log (n-h) dn = \int \frac{3}{(n+2)^{2}} \log (n-h) dn = -3 \frac{1}{n+2} \log (n-h) + 3 \int \frac{1}{(n+2)(n-h)} dn$$

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$$I = \int \frac{e^{\alpha} x + 3}{(e^{\alpha} x^{2} + e^{\alpha} x^{2})} dx = \int \frac{1}{\pi} = D(e^{\alpha} x)$$

$$= \left(\int \frac{1}{4} \frac{1}{3} dx \right) dx = \int \frac{1}{4} dx = \int \frac{1}{4}$$

$$J = -2 \int \frac{dt}{t} + 3 \int \frac{dt}{t^2} + 2 \int \frac{dt}{t+1} = -2 \log |t| - 3 \frac{1}{4} + 2 \log |t| + |t| + R$$

$$\frac{1+2}{t_{3}^{2}n-t_{3}n-2} dn = RA210 AALI 22$$

$$= \int \frac{t_{3}^{4}n-t_{3}n-2}{(t_{3}^{2}n-t_{3}n-2)(1+t_{3}^{2}n)} (1+t_{3}^{2}n) dn = \iint (\frac{t}{t_{3}^{2}-t_{3}})(1+t_{3}^{2}n) dt = t_{3}^{2}n$$

$$\frac{1+2}{2} \binom{2}{n-1} \frac{t}{(t_{3}^{2}n-t_{3}^{2}n-2)(1+t_{3}^{2}n)} = \frac{A}{t_{3}^{2}n-1} + \frac{Ct+D}{t_{3}^{2}n-1} dn compt$$

$$\int \frac{d^{2}}{e^{2} + i e^{4} - 8} = \int \frac{e^{2}}{e^{4} \left(e^{4} + i e^{4} - 4\right)} d^{2} = \left[\int \frac{dk}{t \left(t^{2} + i t - 8\right)}\right]_{t=e^{4}}$$

$$\frac{-i + 3}{i} = \left[\int \frac{dk}{t \left(t^{2} + i t - 8\right)} d^{2} = \frac{A}{t} + \frac{B}{t-1} + \frac{C}{t+2} d^{2} +$$

(5)
$$\int \frac{x^{2}+5}{x-4} dx = \int \frac{x^{2}-1+6}{x-1} dx = \int \frac{x^{2}-1}{x-1} dx + \int \frac{6}{x-1} dx = \int (x+1) dx + \int \frac{dx}{x-1} = \frac{x^{2}}{2} + x + 6 \log |x-1| + 6$$

OPPURE:
$$\frac{\pi^{2} + 2\pi + 3}{-\pi^{2} + 3\pi} = \frac{\pi^{2} + 2\pi + 3}{\pi + 3} = \pi + 5 + \frac{12}{\pi - 3}$$

$$\frac{5\pi + 3\pi}{12}$$

$$f(n) = \begin{cases} 4 - n^{2} - 2n + 3 = 7 - 2n - n^{2} & \text{in } [0, 2] \\ 2 - 4 - 2n + 3 = n^{2} - 2n - 4 & \text{in } [2_{1} + \infty) \end{cases}$$

$$\int_{-\frac{\pi}{3}}^{2} \frac{1}{x^{2}} dx = \int_{-\frac{\pi}{3}}^{2} \frac{1}{x^{3}} dx = \int_{$$

impuiems la continuité De f(x) = le f(x)

$$14 - \frac{8}{3} + C = \frac{8}{3} - \frac{1}{3} - 2 + \frac{1}{3}$$

$$16 - \frac{16}{3} + C = 6$$

$$6 = C + \frac{32}{3}$$

$$e_{1} = \begin{cases} 7\pi - \pi^{2} - \frac{1}{3}\pi^{2} + c & \text{in } [0, 1] \end{cases} \leftarrow \begin{cases} \frac{1}{3}\pi^{2} - \pi^{2} - \pi + c & \text{in } [0, 1] \end{cases} \leftarrow \begin{cases} \frac{1}{3}\pi^{2} - \pi^{2} - \pi + c & \text{in } [0, 1] \end{cases}$$

$$\frac{1}{t^{2}-2} = \frac{A}{t-J^{2}} + \frac{B}{t+J^{2}} = \frac{A}{t+J^{2}} A + Bt - J^{2} B$$

$$\begin{cases} A + B = 0 \\ \int_{1}^{2} A - J^{2} B = t \end{cases} \qquad \begin{cases} B = -A \\ 2J^{2} A = t \end{cases} \qquad \begin{cases} B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ 2J^{2} A = t \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ 2J^{2} A = t \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}} \end{cases} \qquad \begin{cases} A + B = -A \\ T = \frac{t}{2J^{2}}$$

impuiamo de
$$f(z)=6$$

$$6 + \sqrt{1} \cdot \theta_3 \cdot \frac{3-\sqrt{2}}{3+\sqrt{2}} + 6 = 6 \qquad 6 = -\sqrt{2} \cdot \theta_3 \cdot \frac{3-\sqrt{2}}{3+\sqrt{2}}$$

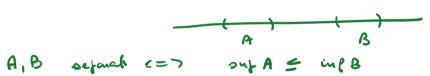
$$f(a) = 2 \sqrt{3+2} + \sqrt{2} \cdot \theta_3 \left[-1 - \sqrt{2} \cdot \frac{3-\sqrt{2}}{3+\sqrt{2}} \right]$$

" for case"
$$\int \frac{dn}{4g^{2}n}$$

$$\int (n-2) \frac{\log \frac{n+3}{n}}{dn} dn$$

Integrale definito secondo Riemann

A, B
$$\subseteq$$
 R Defauch \Rightarrow R \Rightarrow L \Rightarrow L \Rightarrow B \Rightarrow L \Rightarrow L \Rightarrow R \Rightarrow L \Rightarrow



De out A = inf B A & B CONTIGUI

elem. d' sejoncs: one = tut. i numer a i sufA = n = lusB e AiB contiqui cos hamo un unico elem. di rejonca. A= (0,1] B= [1,2] A, B contigui <=>
A= [0,1[B=[42] YE=0 3 a.e. A, b.e. B!
A= [0,1[B=]42] b-a=6

P: [a, b] - R CONTINUA nota en en en en en en en es D= { x0; 21; -1; xu } decompositione de Ca,63 [a,b) = [no,no) U [no, no) U ... U [no, no) |D| = wax { 11, - 20, 22 - 241 - 17 24 - 24 1-1} amjierra della decomprisione Vi = 1, - 1, M 3 1/4; € [n:.,n:]: ((y,) = min (((x;) = man (
[min m] Cous le somme 5 ((ID) = \(\int \left(\g_1 \right) \) \(\text{NI - NI - I} \right) \) Assume inference seconds RIEMANN S (P, D) = E P(42) (ni - ni-1) S = ins delle somme inferiori Si jud Am. de 5 ed 5 sons separati (sup 5 = inp 5) $s(l, D_1) \leq s(l, D_2) \quad \forall D_1, D_2$ TEOR. S ed & sono configui DIN. Bak den de 83 D: S((1))-0((1)) 28 Ricordomo de data f: (a,b) - o M f è della UNIFORMEMENTE CONTINUA 4270 3 570 : se x, 4 e (a, b) , | x-y| = 5 x 4-18(2) - P(x) 1 2 E

TEORGRA DI HEINE- CANTOR: una funt continua in un intervalles chiuse e l'initate à muif cont.

finals E com E e dals de l'à unif cont. 3570: a | n-y| = 5 x la | (|n)-(|y)| = 2 Sic D: 10125 e om. $S(\ell, D) - o(\ell, D) = \sum_{i=1}^{n} (\ell(i) - \ell(i))(\pi_i - \pi_{i-1})$ (+) y1, 21 € [ni., ni) -> |41.21 | < ni-71-1 < 101-5 de neque

(+)
$$< \frac{\tilde{E}}{E_{-\alpha}} \frac{E}{b-\alpha} (n_1 - n_{1-1}) = \frac{E}{b-\alpha} \frac{\tilde{E}}{E_{-\alpha}} (n_2 - n_{1-1}) = \frac{E}{b-\alpha} (b-\alpha) = E$$

Allera out 5 = int 5

quests numero si chiama integrale definito recondo
Riemann di p nelle intervallo (a,b) e si denota con

[f(x) dx

Si be alter # Di. Di
$$\bullet$$
 o(P.D) = $\int_{a}^{b} P(a) da = S(P,D)$

$$\int_{a}^{b} P(a) da = \int_{a}^{b} P(a) da = - - -$$

Astensione dell'integrale definib

es. f(x) = h

formieum: D.
$$s(P,D) = \sum_{i=1}^{n} h(ni-ni-i) = h(b-a)$$

 $S(P,D) = h(b-a)$
 $S = S = \{h(b-a)\} = \sum_{i=1}^{b} h d_{i} = h(b-a)$
 $S = S = \{h(b-a)\} = \sum_{i=1}^{b} h d_{i} = h(b-a)$
 $S = S = \{h(b-a)\} = \sum_{i=1}^{b} h d_{i} = h(b-a) = \sum_{i=1}^{b} h d_{i} = h(b-a)$