2024年3月12日 8:32

1. 暴级数收敛城.

(由 p(x)<1. 得 XE(-R, R) 大土足的教教的是

2. Abel 3/2 (-x, xi) 经对收款 -x2 -xi 0 x, x2 4/4/3 发验

X, & R & Xz.

多沙地放送 =7分界色、

12/- 2 an X²ⁿ 5. For an X²ⁿ⁺¹ total state of the stat

例. $\frac{2}{2}$ C(+ ± +···+ to) (X-1) h to 44 G X to (0, 2.). 解. $\frac{2}{2}$ to X-1. $\int_{t}^{2} \lim_{n\to\infty} \frac{a_{n+1}}{a_{n}}$

= lim 1+ 2+ -+ m + m+1

- lim Itztania 1ナラナー・・ナ た、 n+1 +2+ --+ to) =1 = lim CI+ (0,2) 经对外交 R= Rt= P+ =1 当なられっぱ 盖(H支+···+ 校)(土1)h. 发散 lim [Un] +0. => 发放. 三、幂份放这种没事是数、 1、 这是 (四侧连角)、 是如水 是6,水水. a to (nt). $= E (anth) x^n$. (水经水松石灰多分) Diff. ($\frac{2}{5}$ aux") ($\frac{2}{5}$ hnx" $2 = \frac{2}{5}$ Cn x". Co=aobo, a=aohi+abo. -- Co = aob n+ abn + --+ anbo-(收敛区间的公英苦多)

3 P. E. anx = E. Cnxn.

$$\frac{1+2x+x^2}{1+x} = 1+x. \qquad 1+x = 1+$$

"harket" So sout = So hand the ses So ant the $= \underbrace{\frac{22}{110}}_{11} \underbrace{\frac{2n}{n+1}}_{11} \underbrace{\frac{2n}{n$ Full to the xmt) = $\frac{x}{1-x}$. $\int_{0}^{x} Sttidt = \frac{x}{1-x}$ $S(x) = \left(\frac{x}{1-x}\right)', x \in W$ ③、SM在收敛区间上9号.可连边车。从十次)「 二次十个人) "先手后和" $S(x) = (是 an \chi^n)' = 是 (an \chi^n)'$ 节节与本于多数。 11 an-n (1841) $S'(\infty) = \frac{1}{1-\infty}$ (by its XH-1,11) J's s'H) dt = fort dt. S(X)- 5(0) = - In 11-X1 =-InC1-X> SIX)= 5(0)- In 4-x)= û0 - In (1-x) $\frac{13}{10}$. $\frac{10}{10}$ $\frac{1$ n-1-1 49 6×118 1-1.17

解: P=1, R===1. 收敛城(+,1] "光导"(加中分母会加入 $\mathcal{L} S(x) = \frac{\mathcal{L}}{\mathcal{L}} \frac{(-1)^{n-1}}{n} \chi^{n}.$ 1-X+X2--在收敛区间(小)上西边东手。 $S'(x) = \left(\frac{1}{2} \frac{(1)^{m}}{n} \chi^{n}\right)' = \frac{1}{2} \frac{(1)^{m}}{n} \chi^{n-1}$ $=\frac{1}{1-1-1}$ 3p $s'(x) = \overline{1+x}$ "Fate" Southout = South the. $S(x) - S(0) = \ln(1+x)$. $S(x) - S(x) - S(x) = \ln(x+x) - \ln \frac{2}{x}$. S(0) = 0to so = ln (1+x), $\chi \in (-1,1)$. 5(1) = lim s(x) = lim la (4x) = la2. 33/2. SIX) = ln C(+X), XG(-1,].) s'(x) dx= [+x dx. =) s(x)=ln(4x)+Cy 12/2=0. Slos= lnc+07+c=>c=0 => &x>= In (HX).

 $\frac{1}{20} \frac{(-1)^n}{N+1} \chi^n = \int \frac{\ln(N+\chi)}{\chi} , \quad \chi \in [-1,0] \cup [0,1]$ $\frac{1}{20} \frac{1}{N+1} \chi^n = \int \frac{\ln(N+\chi)}{\chi} , \quad \chi \in [-1,0] \cup [0,1]$ $S(X) = \left(\frac{CO}{PCV} \frac{(-1)^n}{N+1} \sqrt{n}\right)' = \sum_{n=1}^{CO} \frac{(-1)^n}{N+1} \sqrt{n-1}.$ S(X)= & (+1) / (x+0) $S(x) = \frac{1}{2} \cdot \frac{\cancel{E}_{S} (-1)^n}{\cancel{E}_{S} (n+1)} \chi^{n+1} = \frac{1}{2} S_i(x)$ 27 Si(X)= = (-1)" XM+1. £(-1,1) = (05) \$ 10 - 5. $S_{1}(x) = \sum_{n=0}^{\infty} (-1)^{n} \cdot \mathcal{X}^{n} = \frac{1}{1+\infty}.$ Fix: S(1X) = In C(+X) + S(107. = In C(+X)) 94 SW= \$\frac{1}{\times} \square \frac{1}{\times} \cdot \times \frac{1}{\times} \times \frac{1}{\times} \times \frac{1}{\times $S(0) = \lim_{x \to \infty} S(x) = \lim_{x \to \infty} \frac{4n(x)}{x} = 1$ $S(1) = \lim_{x \to 1} \frac{\ln(1+x)}{x} = \ln 2.$ $\sqrt[3]{3}$ \pm : $S(x) = \left\{ \begin{array}{c} \frac{\sqrt{m(Hx)}}{x}, & \chi \in [-1,0) \cup [0,1] \\ 1, & \chi = 0 \end{array} \right.$ $\sum_{n=1}^{\infty} n(n+1) \chi^n = \frac{\chi \mathcal{E}(1,1)}{1}$

ハカナラスタルン

分区 2023-2024学年高数A下804-806 的第 6 页

$$\int_{0}^{x} S(t) dt = \int_{0}^{x} \int_{0}^{\infty} n \cdot (n+1)t dt$$

$$= \int_{0}^{x} \int_{0}^{x} (n+1) n \cdot x^{n+1} = \chi \cdot S_{0}(x)$$

$$\int_{0}^{x} S(t) = \int_{0}^{x} \int_{0}^{x} (n+1) n \cdot t^{n+1} dt$$

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$$= \int_{0}^{x} \int_{0}$$

-N/ FET /1 = X (= X (= X) / = X (= X) // 如何求 500= 是如此 (花林 以致城), Co anxa Constra to 3. $\frac{13y}{2} = \frac{10^{n-1}}{10^{n-1}} = \frac{7}{10^{n-1}} = \frac{1}{10^{n-1}}$ $\frac{\partial \mathcal{L}}{\partial \mathcal{L}} = \frac{(-1)^{n-1}}{n(2n-1)} \times \frac{(-1)^{n-1}}{2n-1} \times \frac{(-1)^{n-1}}{2n-1}$ "发手压死" s = scn = lim SM) 5(x)= = (-1)m. xm (2) 10 (-1) 1 -5(1+). 股級版[H1] $S'(\infty) = \frac{1}{2} \frac{S}{N} \frac{[-1]^{m-1}}{N} \cdot \chi^{2n} = \frac{1}{2} \frac{1}{2} S_i(x)$ $S_{i}(x) = \sum_{h=1}^{8} 2(-1)^{m} x^{2n-1} = 2 \cdot \frac{x}{[-1/x]}$ $\frac{1}{100} S(X) = \frac{100}{100} \frac{(-1)^{N-1}}{N \cdot (2N-1)} \chi^{2N} \cdot S(X) = \frac{2 \cdot (-1)^{N-1}}{2N-1} \chi^{2N}$ 在(一小)上求导的次、 $S''(x) = \frac{69}{5} (-1)^{m} \cdot 2 \cdot \chi^{2N-2} = 2 \cdot \frac{1}{1 + \gamma^{2}}$

 $S''(x) = \sum_{k=1}^{10} (-1)^{m} \cdot 2 \cdot \chi^{2N-2} = 2i + \chi^{2}$ ->ス まごか (× 5"(t) dt- 50 1+t2 dt. S'(x) - S'(0) = 2 autarX. S'(x) = 2 autarX. $A-72\hat{j}^2\hat{k}$ $\int_0^x s'ttldA = 2\int_0^x autant \cdot dt.$ S(X) = S(X) - S(O) $= 2 \left(\operatorname{austait} \cdot t \right)^{x} - \int_{0}^{x} \frac{t}{1+t^{2}} dt \right).$ $=2 \times autan \times -\int_{0}^{\infty} \frac{1}{1+t^{2}} dt dt^{2}$ S(X) = 2 xantan X - In (1+X2). XE(+11). $\frac{co}{\sum_{n=1}^{\infty} \frac{(-1)^{n-1}}{h \cdot (2h-1)}} = S(1) = \lim_{x \to 1^{-}} \lim_{x \to 1^{-}} S(x).$ = 2 autor 1 - In 2. = 1 - In2 2/2: n (n+1) = n- 1/1 (3/2)2) $\sqrt{Jn+1} - \sqrt{Jn} = \frac{1}{\sqrt{Jn+1} + \sqrt{Jn}} (\sqrt{Jn})^2 \sqrt{Jn}$ = \(\frac{1}{2} \) \(\left(-1)^n \) \(\left(-1

$$\frac{\log \left(-1\right)^{n} \cdot 1}{\log \left(-1\right)^{n} \cdot 1} = \frac{\log \left(-1\right)^{n}}{\log \left(-1\right)^{n}} \times \frac{\log \left(-1\right)^{n}}{2n-1}$$

$$= - \ln 2 - 2 \frac{\log \left(-1\right)^{n}}{2n-1} \times 2^{n-1}$$

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$$= \int_{\mathbb{R}^{2}} \int_{\mathbb{R}^{2}} (x) = e^{x}.$$

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