2024年3月26日 8:58

On=0 cn=a/2...? IE3E(WELL fix)= 50 bn sin hax ... shx ... fix=f(x) 李弦牧校。 bn= 0. (n=1,2,-...) fix= and the concertax; wex-fix.

推论: f(x) = f(x+2d). 混沌极效等好 (品信音を) 其 f(-x)=-f(x). W

 $a_n = \frac{1}{t} \int_{t}^{t} f(x) \frac{\cos \frac{n\pi x}{t}}{x} dx = 0. \quad (n=\alpha_1, 2...)$

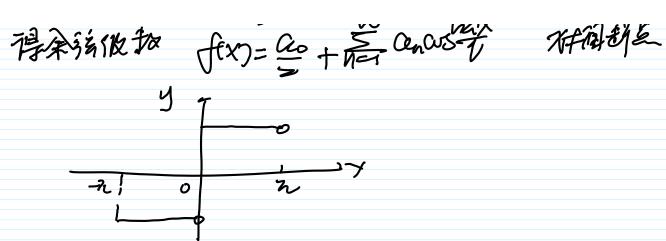
 $b_n = \frac{2}{t} \int_{\delta}^{t} f(x) \sin \frac{n\pi x}{t} dx \quad cn=1,2,...,$

得正弦微数,fixi= 岩的咖啡, 井冽野点

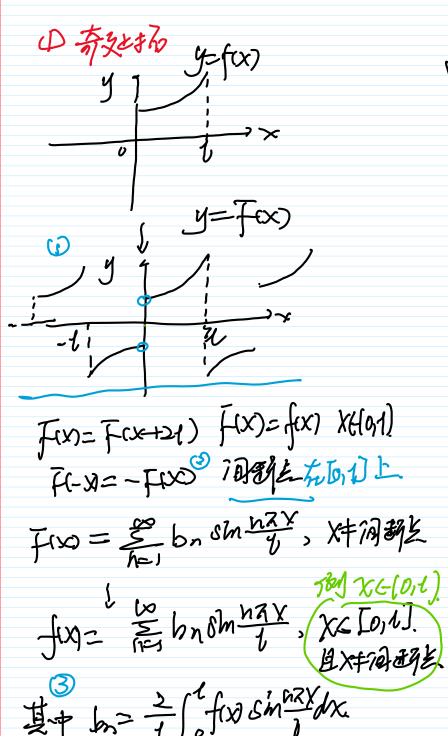
回為fr-X=fx)、测

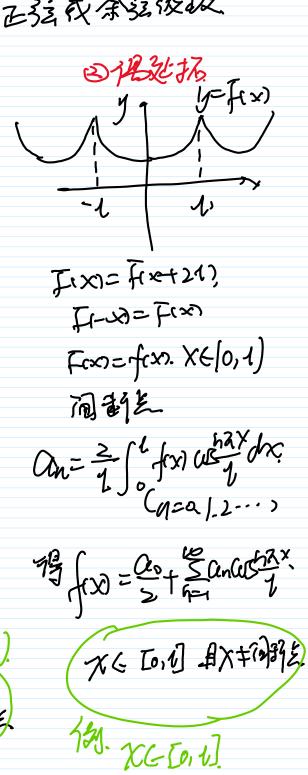
cen = 0 cen = 0 $f(x) cos \frac{nxy}{y} dx (nxo, 1.2, ...)$

学系统协协 fexy=企中原 anousex 科科特点



本有限的面后,可归加展的或正线或级数





其中 h= 主 fx sin nxx dx

x66011.

的撑了什么地 包正线仪板。 图像结似板 T= 1. 1= 3

 $Q_n = \frac{1}{4} \int_0^{\pi} x \cdot \cos \frac{n\pi x}{4} dx = \frac{2}{\pi} \int_0^{\pi} x \cos 2wx dx.$

 $=\frac{2}{\pi}, \frac{1}{2n}\int_{0}^{\pi} \chi dsinen\chi = \frac{\pi}{n} \left(\chi sinen\chi \right)^{\pi} - \int_{0}^{\pi} sinen\chi dx$

 $a = \frac{1}{2} \int_{0}^{\pi} x dx = \frac{\lambda}{\pi} \cdot \frac{\pi^{2}}{3} = \pi.$

bn = 2 12 x smznx dx cuzi.2....

 $\frac{79}{15}$ $\chi \stackrel{\triangle}{=} \frac{71}{2} + \stackrel{\triangle}{=} 6n \text{ sin } \geq n \chi, \quad \chi \in (0, \pi)$

②- 黄沙林

T=272. 1= 72

an= 0 (N=0.1.2,-..) $b_n = \frac{2}{\pi} \int_0^{\pi} x \cdot \frac{\sin nx}{\sin nx} dx$ (4=1,2,---) $79 \chi = 100 h shux, \chi (000)$ $Q_{n} = \frac{2}{\pi} \int_{0}^{\pi} x \cos n x dx \quad \text{upo.} 1.2...)$ If $x = \frac{A_0}{S} + \frac{C}{RET} a_0 a_0 S NX$, $x \in [0, \pi]$ Lighton $A_0 = \frac{A_0}{S} + \frac{C}{RET} a_0 a_0 S NX$, $x \in [0, \pi]$ $A_0 = \frac{A_0}{S} + \frac{C}{RET} a_0 a_0 S NX$, $x \in [0, \pi]$ $A_0 = \frac{A_0}{S} + \frac{C}{RET} a_0 a_0 S NX$, $x \in [0, \pi]$ $A_0 = \frac{A_0}{S} + \frac{C}{RET} a_0 a_0 S NX$, $x \in [0, \pi]$ AP_{i} avcsin(sin(-x)) = ausin(-six) = ausin(six) $Q_n = 0$ - $(1)^20, b^2 \cdots$ lon= 1 Janusin(sx). Sinhydx = = 2 saush(snx)-shuxdx Y=arcsinx. X & [-11] Y & [-1,5]. aush(sho) = 0 $aush(sh \frac{\pi}{2}) = \frac{\pi}{2}$.

aushlonus

$$y = \text{cursin}[\text{sin}x) \longrightarrow \text{sin}y = \text{sin}x$$

$$x \in [-\frac{\pi}{2}, \frac{\pi}{2}] \quad y = \text{cursin}[\text{sin}x) = \chi$$

$$\chi \in (\frac{\pi}{2}, \frac{\pi}{1}]. \quad \text{cursin}(\text{sin}\frac{\pi}{2}x) = \frac{\pi}{2}.$$

$$x \in (\frac{\pi}{2}, \frac{\pi}{1}]. \quad \text{cursin}(\text{sin}\frac{\pi}{2}x) = \frac{\pi}{2}.$$

$$x = \text{sin}(\pi - x) \quad \pi - \chi \in [0, \frac{\pi}{2}]$$

$$x = \text{cursin}(\text{sin}x) = \begin{cases} \chi & \chi \in [-\pi, -\frac{\pi}{2}) \\ \chi & \chi \in [-\pi, -\frac{\pi}{2}) \end{cases}$$

$$x = \frac{\pi}{2}.$$

一、 以志·

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~ i) the face / 21 425
11. FIGHEN INCOME
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ii)就能多于(特殊、不胜)
门门,原竹
XCI

メート (り) なのきますら(X) いのからすいつのを 图层开, 间接性, 其实积分, 影响等 क काडि 引擎2叶欲数; ③何知兰. 北三王 fex)=----, x+ia) =1/2 3 Han. bn. 二 习题、 39 = (Jn+2 - 2 Jn+1 + du) - 44 xx. $\sim \frac{C}{\mathcal{H}^{\frac{3}{2}}} (4 \rightarrow 20)$ 例是(211-11-11). 收敛.

 $= \frac{Jn - Jn + 2}{(Jnf2tcIn+1)(Jn+1+Jn)} = -\frac{2}{(Jnf2tcIn+1)(Jn+1+Jn)}$ 解: Un = (n-In=1)-(-Tn=+1-n). $\sim \frac{C}{n^3} (n-160)$ = 1 - 1 = --- = --倒 计岩柱 一、七二十二 发数

Sein Ju limings = 1 to 细. 发放. 发放. ~ 1 1 ~ ~ ~ ~ (N-) 60) $\frac{134}{5} \left(\frac{n}{3n-1}\right)^{n-1} \frac{120}{120}$ $\text{AB: } f = \lim_{n \to \infty} \sqrt{\left(\frac{n}{3n-1}\right)^{2m}} = \lim_{n \to \infty} \left(\frac{n}{3n-1}\right)^{-\frac{n}{2m}}$ =(言)2=分人. 131 Undo- Uni 3 ntl. MEUn LEEN 解: 此33, 53 U2 1/2 1/3 ... Un+1 7 = 3 . 4 ... h. Un+1 7 1/1 Hn+1 > U. 1/21. "大发教仁一十"发教 13 = un (Un), o) (XXX P>= M & Mu 1/2 MX TIM. - 5 < - (Un + 1/24)

分区 2023-2024学年高数A下804-806 的第 8 页

Jun / 5 = (Un + 1/2) 2/2/. 妆、巨牧大牧. 例。是(一)加 (绝对,教发教) 解, <u>so 1</u> 发数 hultu) < n The CI+W) I Alimation -0 $\frac{1}{2}$ $\frac{20}{2}$ $\frac{20}{2}$ $\frac{20}{2}$ $\frac{20}{2}$ $\frac{1}{2}$ $P(\hat{x}) = \lim_{n \to \infty} \sqrt{|X|^{n^2}} = \lim_{n \to \infty} |X|^n = \left(\frac{1}{+60}, |X| < 1\right)$ $\frac{\chi}{14\chi^2} = \chi (1+\chi^2)^{-\frac{1}{2}}$ THX2. $\frac{\partial \mathcal{L}}{\partial x} \left(\frac{\chi^{n^2}}{x^2} \right) \frac{\partial \mathcal{L}}{\partial x}$ $\frac{2}{\sqrt{1+\chi^2}} = \chi \left(\frac{1+\chi^2}{1+\chi^2}\right)^{-\frac{1}{2}}$ (JHX2) = [c1+X2) =] lm4 + 27 [In 1x+ of+x2)]' = - (1+x2)-\frac{1}{c1/+x2}.

例. $\frac{120}{120}$ $\frac{120}{120$ 第一-2hk = 1 カン1 仏な会文 第一 251 宏教、 $2^{\lambda \ln k} = e^{(\ln 2)(-\lambda \ln k)} = \frac{1}{k^{\lambda \ln 2}}$ $\frac{2}{h=0}$ anx. $\frac{(2n+4)=(2n)}{(2n+4)=(2n)}$ $\frac{1}{4}$ $\frac{1}{4}$ =(ao+ -- + MEX3)[1 + X4+X8+---] $=(\alpha_0+\cdots+\alpha_3\chi^3)\cdot\frac{1}{1-\chi^4}.$ $\chi\in(-1,1)$ $\frac{134}{50} \frac{134}{(-1)^{\frac{n}{(n+1)}}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi (-1)^{\frac{n}{(n+1)}} \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi^{\frac{2n+1}{2}} = \frac{\sin \chi + \chi \cos \chi}{5} \cdot \chi^{\frac{2n+1}{2}} = \frac{\sin \chi}{5} \cdot$ S (M+1) X2M+1 结据等 $2.5(x) = \sum_{i=1}^{10} (-1)^{i} \frac{2n+2}{(2n+1)!} x^{2n+1}$

$$2S(X) = \sum_{k=0}^{10} \frac{(-1)^{n} (2n+2)}{(2n+1)!}$$

$$= \left[\sum_{k=0}^{10} \frac{(-1)^{n} x^{2n+2}}{(2n+1)!} \right]^{n}$$

$$ShX + XasX = (X ShX)^{n}$$