19-20 A(-)期中

一.选择处

1. {M}并数列,下到不正确的是(C)

A. 若 lim X = lim X n+=a, 即 lim X =a 存在.

B. 若lim Xn =a 存在,则lim Xn =lim Xn+=a

lim x = a (=) lim x = lim x = 1= a

C. 共 lim x3n=lim x3n+ =a, 即lim xn=a 存在 X

D.若lim Xn=a, 即 lim X3n=lim X3m=a存在. / lim X=a () (1) 1/4-科收货到在.

C: The th: 0,1,0,0,2,0,0,3,0,--,0,n,0,--

19 /3n=Xn+1=0. /3n+2=n. n=0.1.2,-. p/lin /3n=lin /3n+=0, /4 lin / 7.44

事实上 lim xn = lim xn+ = lim xn+ = a lim xn=a.

2. x70时, 函数fx)= 文从文是(D)

A.无新小. B.无新大. C.科,但不是无新· D无折,但很无新大.

TR X = IT , P) fK/)= (ATT) - SIN INT = 0

lim flyn)=0

 $\chi_1^2 = \frac{1}{2n\pi t^2}$, $f(\chi_1^2) = (2n\pi t^2)^2$. $Gh(2n\pi t^2) = (2n\pi t^2)^2$, $homographing = (2n\pi t^2)^2$.

1. fa)无料, 但非无效大

3. f(x) = { (x+) arctan = 1 x+1, p/f(x) (B)

B在不到处间断, 科处连续 A在X=- 连续, 料处间断. C在X+1, X-1处都连续. D.在X+1, X-1处都间断 lin fk) = lim (x+) artin = 0: (\lim (x+)=0, \langle artin \frac{1}{2-1} = 0: \left(\frac{\lim (x+)=0}{2-1} \right) \left(\frac{\lim (x+)=0}{2-1} \right) \right) lim fx) = lim (x+1) - arton FT TAX f(-1)= lim (x+1). lim outon = = 2. = - T., f(+1)= 2. (-=)=T. · lim f(x)=f(r) x | 处连定,f(+) +f(++),x-1为神故问的空 4. fn)在知处连续,下列错误的是(D) fn 知道(=) simfn=f0) A. lim fx) 存在, Pol flo)=0. 人 () 被 lim fx)= A. Pol lim fx)= lim fx) = lim fx) = 0, Pol fo)=0. AV B. lim f(+)+f(x) 存在, P) f(0)=0. / 且 f(0)= lim f(x)-f(0) = lim f(x) = A C V. C. lim flu)存在,则flo)存在、 Ø若lim flu)flu) ffx) = A. 即 lim ffx) +fx) = A.0=0. D. lim th)-f(x) 存在. P(f(o)存在X P(f(o)+f(o)=0=)f(o)=0 BV. 图取fx)=|x|, p|f(x)-f(x)=0, : lim f(x)-f(x) =0, 但f(b)不存在 DX 5. 已知的有任意所导数,且为()=[约]2, 对自n为对2的正整数时, f以为(C)

A. Effer] . B. n. Effer] M. C. n! Effer] M. D. n! Effer] . n.

Campus

$$f(k) = [f(k)]^2$$
, $f(k) = [f(k)]^2 = 2f(k) \cdot f(k) = 2! [f(k)]^3$
 $f'(k) = [2 \cdot f'(k)]' = 2 \cdot 3 \cdot f'(k) \cdot f(k) = 3! [f(k)]^4$
 $f'(k) = h! [f(k)]^{n+1}$

二.梅空改.

$$\max(a_1-a_2) \leq (a_1^n+a_2^n+\cdots+a_k^n)^{\frac{1}{n}} \leq \sqrt{k} \cdot \max(a_1,a_2-a_k)$$

$$\frac{250 \lim_{h \to \infty} \frac{(1-ax^2)^{\frac{1}{2}-1}}{\ln(\ln x)} = 1 \cdot \lim_{h \to \infty} \frac{(1-ax^2)^{\frac{1}{2}-1}}{\ln(1-2\sin^{\frac{1}{2}})} = \lim_{h \to \infty} \frac{\frac{1}{2} \cdot (-ax^2)}{\ln(1-2\sin^{\frac{1}{2}})} = \lim_{h \to \infty} \frac{\frac{1}{2} \cdot (-ax^2)}{\ln(1-2\sin^{\frac{1}{2}})} = \lim_{h \to \infty} \frac{\frac{1}{2} \cdot (-ax^2)}{\ln(1-2\sin^{\frac{1}{2}})} = \lim_{h \to \infty} \frac{1}{2} \cdot \lim_{h \to \infty} \frac{1}{2} \cdot$$

$$\lim_{x \to 0} \frac{-\frac{a}{2}x^{2}}{x^{2}} = \lim_{x \to 0} a = a = 1$$

The best state :
$$\lim_{h \to \infty} \frac{(\tan^2)^{\frac{1}{2}} - 1}{\ln(\tan x)} = \lim_{h \to \infty} \frac{1}{\ln(\tan x)} = \lim_{h \to \infty}$$

 $\lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1}{1 + e^{\frac{1}{\lambda}}} + \lambda \left[\lambda \right] \right) = \lim_{\lambda \neq 0} \left(\frac{1$

9. 2\frac{\frac{fk}}{fk}=(\frac{fk}) \tau \frac{(\frac{fk}}{2}) \cdots (\frac{fk}{2020}), \text{ pl} \frac{f()}{f()} = \frac{-\frac{1}{2}\frac{9!}{2}}{\frac{f()}{2}} \\
\frac{f()}{f()} = \lim_{\frac{f()}{2}} \frac{f()}{2} = \lim_{\frac{f()}{2}} \frac{(\frac{f()}{2}) - (\frac{f()}{2})}{2} = \lim_{\frac{f()}{2}} \frac{f()}{2} - \lim_{\frac{f()}

10. # f(t) = lim t.(1+\frac{t}{\times}), P df(t) = \frac{(t+1)e^t dt}{t}

f(t) = lim t.(1+\frac{t}{\times})^{t\times} = lim t.[(1+\frac{t}{\times})^*]^t = t.e^t

: f(t) = e^t + te^t = |t+1|e^t

df(t) = (t+1)e^t dt