17-18 AL-)期中

一.炖空&

$$\frac{1}{n^{2}h^{2}}\left(\frac{1}{h^{2}h^{2}h^{2}}+\frac{2}{h^{2}h^{2}h^{2}}+\frac{3}{h^{2}h^{2}h^{2}}+\cdots+\frac{n}{h^{2}h^{2}h^{2}h^{2}}\right)=\frac{1}{2}$$

$$\frac{\frac{h(n+1)}{n}}{n^{2}+n} = \frac{1+2+\cdots+n}{n^{2}+n+n} \leq \frac{1}{n^{2}+n+1} + \cdots + \frac{n}{n^{2}+n+n} \leq \frac{1+2+\cdots+n}{n^{2}+n+1} = \frac{\frac{n(n+1)}{n}}{n^{2}+n+1}$$

$$\frac{\chi(in)}{2} = \lim_{n \to \infty} \frac{n^2 + n}{2(n^2 + 2n)} = \frac{1}{2} \lim_{n \to \infty} \frac{n(n+1)}{2} = \lim_{n \to \infty} \frac{n^2 + n}{2(n^2 + 2n)} = \frac{1}{2} \lim_{n \to \infty} \frac{n(n+1)}{2(n^2 + 2n)} = \lim_{n \to \infty} \frac{n^2 + n}{2(n^2 + 2n)} = \lim_{n \to \infty}$$

$$\frac{\partial Gn(\pi\sqrt{n+1}-n\pi)}{\partial Gn(\pi\sqrt{n+1})-n^2\pi^2} = Gn\frac{\pi^2}{\pi\sqrt{n+1}+n\pi} = Gn\frac{\pi}{\pi\sqrt{n+1}+n} = Gn\frac{\pi}{\sqrt{n+1}+n}$$

3.
$$f(x) = \chi(\chi + 1)(\chi + 2) - (\chi + 2)(1)$$
, $\chi' | f(0) = 20|7!$
 $f(0) = \lim_{\chi \to 0} \frac{f(\chi) - f(0)}{\chi - 0} = \lim_{\chi \to 0} (\chi + 1)(\chi + 2) - (\chi + 2)(1) = |\cdot 2 \cdot - 2|7 = 20|7!$

: f(m) = 1-3.5--(2n-1)[fk)] 2n+1

10. 机有连续的导函数, 知为,且的为,若知二分数十分和外进程.

则秘A=(C.)

A.a. B.b C. atb Do

FAX 在 连往, : limf(x) = lim f(x)+a(x)x = Flo), 即lim f(x) + a=A

X flot=of(0)=b, pl flot=lim fx+flot = lim fx) = b.

: atb=A.

Date

5. fx) 可数, y=fx)·e*, x) dy= fx)·e* (Hfx) dx y=fk)·eth+fk)·eth.fk)=fk)·eth)(1+fk)) => dy=y'dx 二、这样题 6. 图知 (m - ax-b)=0. a.b)科数则(C) Aa=1, b=1, Ba=1, b=1. C. a=1. b=-1 D. a=1. b=-1 lim (x+1 -axb) = lim x2-(ax+b)(x+1) = lim (1-a)x2-(a+b)x-b =0 : Sta=0 => Sa=1 a+b=1 b=-1 7. x>2叶. fx)= x24 e x2 的根限(D) A等干4. B等干0. C为必. D不存在但也不为必 (A) fx)= (A)-(A)-ex x72+4 /2 > +10 ex2 > +10 f(x+)=+10 インサ、 対ラール、 exi >0 f(2-)=4·0=0. 8. 470 时. (1-68x) ln(HX) 是比 x sinx 有所的无部, 不xinx 是比(ex-1)有价的无斜. 则正包数n=(B) A. 1 B2. C3. D4. lim (1-63x) (n(1+x²) = 0 = lim = 1x². x² = lim = x³n = 3+170. 2p n23 lim x. sinx" = 0 = lim x.x" = lim xnd =0 => nd 70 pp n71

Campus