苏· 连续到 和限处理



4.设 $\{a_n\}$ 和 $\{b_n\}$ 满足: $a_1>0, a_{n+1}=a_n+rac{1}{a_n^2}, b_n=\sum\limits_{k=1}^nrac{1}{a_k^2}, n\in Z^+$

, 则 **D**

(A) $\lim_{n o \infty} a_n = A$ 和 $\lim_{n o \infty} b_n = B$ 均存在;

(人)
$$\lim_{n o \infty} a_n = A$$
存在, $\lim_{n o \infty} b_n = +\infty$

$$($$
 $\lim_{n \to \infty} a_n = +\infty$, $\lim_{n \to \infty} b_n = B$ 存在;

$$\lim_{n\to\infty} a_n = +\infty, \ \lim_{n\to\infty} b_n = +\infty$$

ann -an= == >0

$$b_{n} = \sum_{i=1}^{N} a_{i}^{-1} = \sum_{i=1}^{N} (a_{i+1} - a_{i}) = a_{i+1} - a_{i}$$

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 $a_{n+1} = a_{n} + a_{n} = \frac{a_{n}}{z} + \frac{a_{n}}{z} + \frac{a_{n}}{a_{n}} \ge 3/4 \Rightarrow 1/4 = 1/4$

··· an-1在中医不存在: baraterer-16在!

(年起建行界放理部)

"和限是存在一致!

(an) 极限判断:方法积累!

假设[antileTete Ath A, 即: Liman = A

| liman = liman = A): みず am = an + 古 " > A= A+ 在 元解!: an 松厚不存在!

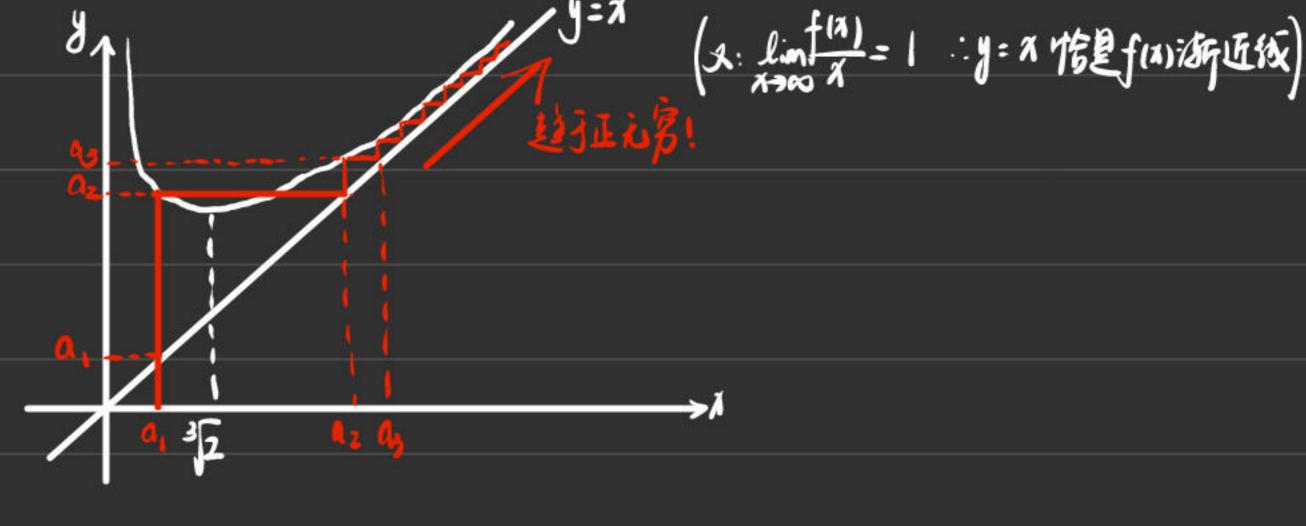
一数列和限的特性

和限判析法二(财网图!)

f(x) = x+ +2

即: ann =f(an) >对过失数引的极限问题和可用这两种活制断极限整征在:

$$f(x) = 1 - \frac{2}{x^3} = \frac{x^3 - 2}{x^3} (x^{30}) 在(32.+10) (.在(0.32))$$



日期:

2. 若
$$x_1 = a > 0$$
, $y_1 = b > 0$, $a < b$, $x_{n+1} = \sqrt{x_n y_n}$, $y_{n+1} = \frac{x_n + y_n}{2}$, 试证数列极限

 $\lim_{n\to\infty} x_n = \lim_{n\to\infty} y_n$.

ゆj オナリミングy (ガンO, y>O)

· Liman, limyn均存在

题: 没对方每一5整数m>0,由条件 an(0)= d (d为非零常数)和 an (j+1)= an(j)+2an(j).j>0. 定义数到 (an(j)) j=0.1.2.... 计算 Liman(n)=?

$$\frac{\pi \xi}{2} \cdot \frac{1}{2} \cdot$$

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