$$[in] \left[\left[+ \frac{(n)^n}{n} \right] = \right]$$

$$\frac{1}{1000} = \frac{1}{1000} = \frac{1$$

$$\lim_{N\to\infty} \frac{1}{\sqrt{R}N} = 1$$

2.3 \$\fix\fix\lim_n\lim_\left(\frac{1}{n^2+n+1}+\frac{2}{n^2+n+1}+\frac{1}{n^2+n+1}+\frac{1}{n^2+n+1}\right)\$
$$(4) = \frac{1}{n^2+n+1} + \frac{1}{n^2+n+1} + \frac{1}{n^2+n+1}$$

$$(4) = \frac{1}{n^2+n+1} + \frac{$$

$$\frac{(n+1)^{11}}{2} + \frac{1}{100} + \frac{1}{100} = \frac{1}{2}$$

$$\frac{(n+1)^{11}}{2} + \frac{1}{100} + \frac{1}{100} = \frac{1}{2}$$

$$\frac{n}{2} = \frac{1}{n^{2} + n + i} < \frac{n}{2} = \frac{n}{n^{2} + n}$$

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

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

证明数列(an)收敛

$$\lim_{N\to\infty} 2 - \frac{1}{N} = \sum_{n\to\infty}$$

2.5
$$2x_{1}=2$$
, $x_{n+1}(x_{n+1})x_{n+1}=3$ $(n=2,3,...)$

解:
$$\frac{1}{2}$$
 $\frac{1}{2}$ $\frac{1}{2}$

$$\chi_{N}(1+\chi_{N-1})=3+4\chi_{N-1}$$

$$\chi_{N} = \frac{3+4\chi_{N-1}}{[+\chi_{N-1}]}$$

$$= \frac{(3+4)(1+x_{n-1})-(1+x_n)(3+4)}{(3+4)(3+4)}$$

"
$$\chi_{1} = 2$$
 $\chi_{2} = \frac{3+8}{1+2} = \frac{11}{3} > 2$

$$\zeta = \chi N - \chi^{N-1} > 0$$

《知道河道

由保留性可采,A>D

1(M Xn c 3+42)

$$\frac{1}{2} - 3 = 0$$

2