usernzme

3) Sie 2n = 1/n+2 => | 1m 2n = 0 | Vevo: VE>0] 1 d.c. | 2n - 0 | < E Vn>1

Fisso E>0 piccolo a piacere ! | 2n |= 1/n+2 < E Quendo succede?

 $\frac{1}{\epsilon} < n+2$ $n > \frac{1}{\epsilon} - 2$ Devo scenliere \bar{n} f.c $\bar{n} \ge \frac{1}{\epsilon} - 2$ e b consequenza ho che $n > \bar{n} \ge \frac{1}{\epsilon} - 2 \Rightarrow |a_n - o| < \epsilon \quad \forall n > \bar{n}$

OTP

VE>0 Jnt.c. | n+2-0 | < E Vn>n

 $|\partial_n| = \frac{1}{n+2} < \varepsilon$ $\frac{1}{\varepsilon} < n+2$ $n > \frac{1}{\varepsilon} - 2$ Scelgo \bar{n} (i.e. $\bar{n} \ge \frac{1}{\varepsilon} - 2 = > n > \bar{n} \ge \frac{1}{\varepsilon} - 2 = > |\partial_n - o| < \varepsilon$

6) $2n = 2 + \frac{N+1}{n^2 + 2n + 1} = > \lim_{n \to +\infty} 2n = 2$ Vera

VEYO JU t.c. | 2n-2 | < E Vn > 10 Pessword ermedillo

VE>0 Jn J.c. |2+n+1 -2 | < € Vn>n

 $\left|\frac{n+1}{(n+1)^2}\right| < \varepsilon \qquad \left|\frac{1}{n+1}\right| < \varepsilon \Rightarrow \frac{1}{n+1} < \varepsilon \Rightarrow \frac{1}{\varepsilon} < n+1 \Rightarrow n > \frac{1}{\varepsilon} - 1$

Scelar T.c. \$\bar{n} \geq \frac{1}{6} -1 => n > \bar{n} \geq \frac{1}{6} -1 => |\frac{1}{6}n - 2| < & \frac{1}{7}n > \bar{n}\$

colice segreto

PIN

8) &n= 5-1 => lim &n = -1 Ver DIM.

 $\left|\frac{5-n}{n+1}+1\right| < \varepsilon \quad \left|\frac{5-n+n+1}{n+1}\right| < \varepsilon \quad \left|\frac{6}{n+1}\right| < \varepsilon \quad \Rightarrow \quad \frac{6}{n+1} < \varepsilon \quad \Rightarrow \quad \frac{6}{\varepsilon} < n+1 \quad \Rightarrow \quad n > \frac{6}{\varepsilon} - 1$

scelgo \bar{n} t.c. $\bar{n} \geq \frac{6}{\epsilon} - 1 \Rightarrow n > \bar{n} \geq \frac{6}{\epsilon} - 1 \Rightarrow |2n+1| < \epsilon \quad \forall n > \bar{n}$

2) An= n => lim An = 0 PSW

VESO JT F.C. 12n-01< E Vn >T JT F.C N<E Vn ,T credenzieli

Fisso & Piccolo e pizcere

| N | L E N L Sie E=1 Fr t.c N L Vn > n NO

credential