

YESO Inoxn(E) >0 Vnon. |an-aleE an 50015 a - 5 10 | 50+15 +5 | < E 1 45 CE 45-28/6-11 16-n/> 25 10-6/>45 gus n ≥ 6: n > € +6 } > n = [+ us +6] Ooker: no=[ + 45 +6]  $\lim_{n\to\infty}\frac{(3-n)^3}{(n+1)^2-(n+1)^3}=\left|\frac{\infty}{\infty}\right|=\lim_{n\to\infty}\frac{27+8n^2+27n-n^3}{-2n^2-n-n^3}=\lim_{n\to\infty}\frac{\frac{22}{n^3+n}+\frac{22}{n^2-1}}{\frac{2}{n^2-1}-1}=\frac{-1}{-1}=1$ Utle 1 lin n \$\langle 1 \frac{1}{2} \langle 2 \frac{1}{2} \fr  $= \lim_{n \to \infty} \frac{\sqrt[4]{n}}{\sqrt[4]{n}} + \sqrt[4]{n} + \sqrt[4]{n} = \frac{\sqrt{32}}{\sqrt{n}} = \frac$ Orber 2 lim (1(n+2 \(n+1)-V(n-1)(n+3))= |00-00|=lim (1-2-Vn=2n-3)= Orber: - =

lim (2n+1) + (2n+2) = lim (2n+1) + (2n+2) = lim 2n+3 = lim = 1 n=00 (2n+3)! = n=00 (2n+1) (2n+2) (2n+3) = 00 (2n+2) (2n+3) = 0 = 2n+2 Atlest: 0  $\lim_{N \to \infty} \left( \frac{n^{3} + 2}{n^{3} + 2} \right)^{2n^{2}} = \lim_{N \to \infty} \left( \frac{n^{-1}}{n^{3} + 2} \right)^{2n^{2}} = \lim_{N \to \infty} \left( \frac{n^{-1}}{n^{3} + 2} \right)^{2n^{2}} = \lim_{N \to \infty} \left( \frac{1}{n^{-1}} \right)^{n} = \lim_{N \to$ Orber: e2