Cauchy's Rock test: of series 5 un of positive lorus is (i) Convergence if It (un) 1/n / (ii) Divergence if It (un) 1 > 1 (iii) Test fails if It (up) 1/m = 1 Q. Test convergence of the series :-Sol: Here, $=\left(\frac{n+1}{n}\right)$ = $\frac{3}{3^n}$ $\frac{3}{3^n}$ It un = It $(\frac{n+1}{n})^n$ $= \underbrace{1}_{n \to \infty} \underbrace{n(1+\frac{1}{n})}_{n}$ =(1+10) 2>1=1 <1 By Cauchy's Root Test, Eun is convergence





