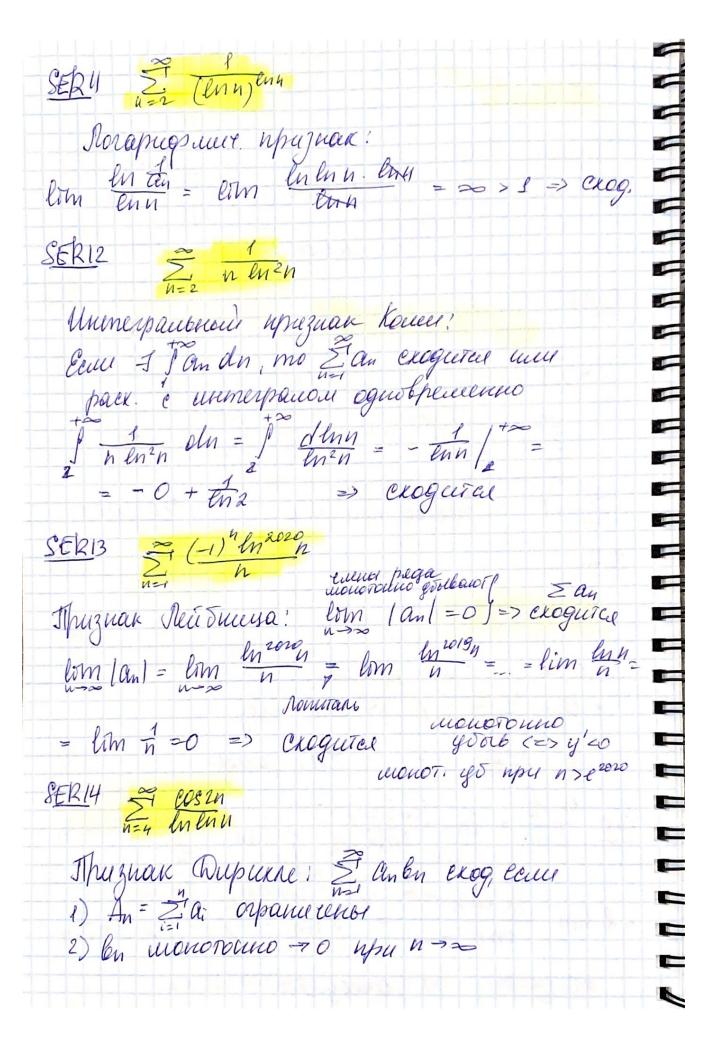


SER4 ST (1+ 1) Em (1+1) = e $\lim_{n\to\infty} \frac{(1+n)^{n^2}}{e^n} = 1 + 0 \Rightarrow \text{packogetal}$ SER 5 $\approx n! (2n+1)!$ $\frac{a_{n+1}}{a_n} = \frac{(n+1)!(2n+3)!}{(3n+3)!} \cdot \frac{(3n)!}{n!(2n+1)!}$ $= \frac{(n+1)(2n+3)(2n+2)}{(3n+3)(3n+2)(3n+1)} \Rightarrow \frac{4}{9} < 1$ = > no npuzuaue & v'Auauedepa exegures = > cxeguresSER6 ST nº n. 3" $\frac{\Omega_{m+1}}{\Omega_n} = \frac{(n+1)^n(n+1)}{(n+1)!} \cdot \frac{n!}{n!} = \frac{1}{3} \left(1 + \frac{1}{n}\right)^m \Rightarrow \frac{2}{3} < 1$ $\Rightarrow no \quad npuj. \quad D'Aucuudepa$ exoguirea $\frac{8ER+1}{8} = \frac{(5-(-1)^n)^n}{n^2 \cdot 4^n} > \sum_{n=1}^{\infty} \frac{(5-(-1)^{2n+4})^{2n+4}}{(2n+1)^2} = \frac{1}{4^{2n+4}}$ $= \sum_{n=1}^{4} \frac{1}{(2n+1)^2}, \left(\frac{6}{4}\right)^{2n+3} = \sum_{n=1}^{2n} \left(\frac{3}{2}\right)^{2n+3} \frac{1}{(2n+1)^2}$ pacroquice => uexognore peg tome paexoguerce

SER S

SER S $(n+1)^{n-2}$ Typegram Koull! $(n+1)^{n} = lim 3 \cdot (1-m+1)^{n+1} = 3e > 1$ => paexegerredSER S $(1+m)^{n} (1+m)^{n+2} = 0$ => paexegerred $(1+m)^{n} (1+m)^{n+2} = 0$ $=> (1+m)^{n} (1+m)^{n+2} = 0$ $=> (1+m)^{n} (1+m)^{n+2} = 0$ $=> (1+m)^{n} (1+m)^{n+2} = 0$ $=> (1+m)^{n+2} =$ Morapup murelemén npuzuax:

lon lon to se exog. · lan enter < 1 => Zan packog. $\lim_{n \to \infty} \frac{\ln \frac{1}{2}}{\ln n} = \lim_{n \to \infty} \frac{(\ln \ln n)^2 > \infty}{\ln n} = \lim_{n \to \infty} \frac{1}{\ln n} \cdot \frac{1}{\ln n} = \lim_{n \to \infty} \frac{1}{\ln n} = \lim_{n \to \infty} \frac{1}{\ln n} \cdot \frac{1}{\ln n} = \lim_{n \to \infty} \frac{1}{\ln n}$ = 2 lim $\frac{\ln \ln n}{\ln n}$ = $\frac{\ln \ln \frac{\ln n}{n}}{\ln n}$ = 2 lim $\frac{\ln n}{\ln n}$ = 2 lim $\frac{\ln n}{\ln n}$ =0 <1 => packogural



• lim then =0 cucucranico

• An =
$$\sum_{n=1}^{N-1} los 2k = los 8 + los 10 + ... + los 2n = \frac{1}{sm1} (sin 1 los 8 + sin 1 los 2n) = \frac{1}{sm1} (sin 1 los 8 + sin 1 los 2n) = \frac{1}{sm1} (sin 1 los 8 + sin 1 los 2n) = \frac{1}{sm1} (sin 1 los 8 + sin 1 los 8 + s$$

