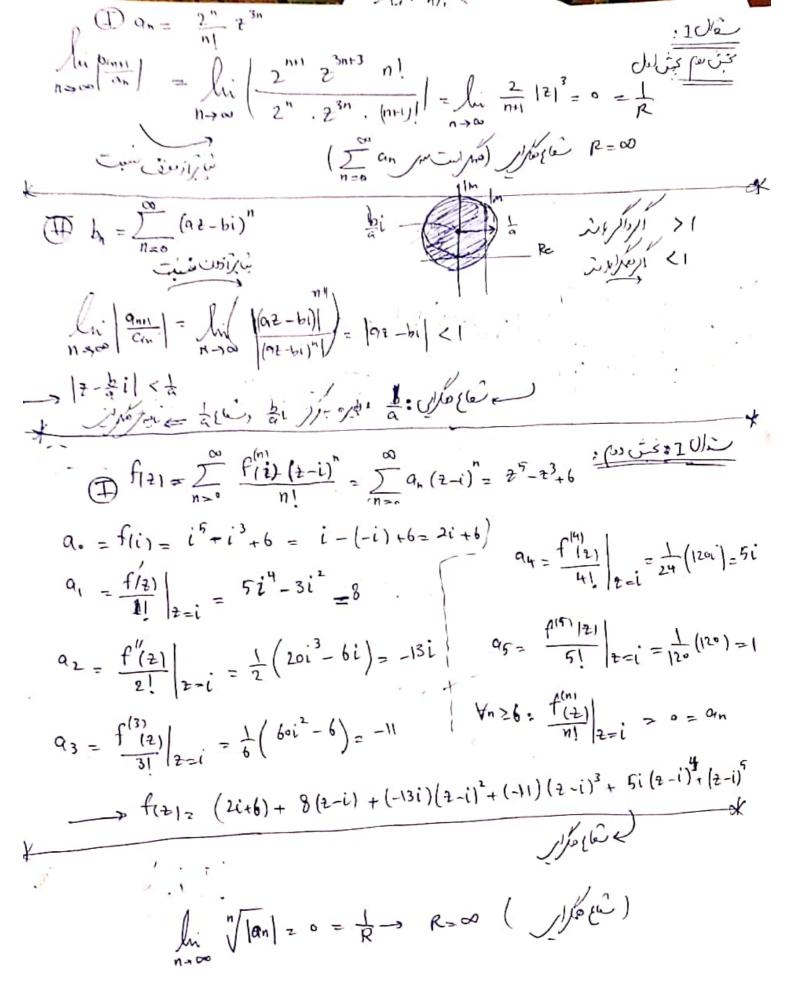
(Dan= 11. (21)" > li | ani) - li | (n+1)! . (21)" . 14" | : 101." | : 101." | : 101." | : 101." | $= \lim_{n \to \infty} \left| \frac{n! \cdot (nn!) \cdot (2i)^n \cdot 2i \cdot (n)^n}{n! \cdot (2i)^n \cdot (nn!) \cdot (nn!)^n} \right| = \lim_{n \to \infty} 2 \left(\frac{n}{n+1} \right)^n = 2 \lim_{n \to \infty} \left(1 - \frac{1}{n+1} \right)^n$ = 2 hi \(\frac{(1-\frac{1}{n+1})^{n+1}}{1-\frac{1}{n+1}} = 2 \frac{\line{(1-\frac{1}{n+1})^{n+1}}}{\line{(1-\frac{1}{n+1})^{n+1}}} = 2 \line{\line{(1-\frac{1}{n+1})^{n+1}}} = 2 \line{\line{(1-\frac{1}{n+1})^{n}}} = 2 \line{\line{(1-\frac{1}{n+1})^{n+1}}} = 2 \line{\line{(1-\frac{1} $\rightarrow \ln A = \lim_{n \to \infty} n \ln (1 - \frac{1}{n}) = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{1}{n})} = \lim_{n \to \infty} \frac{\ln (1 - \frac{1}{n})}{\ln (1 - \frac{$ (1) bn = 1/n2-i → Vn | 1/n2 | < 1/n2 | < 1/n2 | < 1/n2 = Xn $\Rightarrow \lim_{n \to \infty} \sqrt{|\mathbf{c}_n|} = \lim_{n \to \infty} \left(\frac{a}{b}\right) \cdot n^{\frac{1}{n}} = \frac{a}{b} \lim_{n \to \infty} n^{\frac{1}{n}} = \frac{a}{b}$ C = (ai) n4 $\sum_{n=1}^{\infty} c_n = \begin{cases}
1/\nu & \alpha > b \\
1/\nu & \alpha < b
\end{cases}$ $= (1+i) \left(\sum_{n=1}^{\infty} (n+2)^{\frac{1}{2}} - n^{\frac{1}{2}} \right)$ $\alpha > b \longrightarrow \sum_{n=1}^{\infty} i^n n^{\frac{1}{2}} = \left((n+2)^{\frac{1}{2}} - n^{\frac{1}{2}} \right) + i \left(\sum_{n=1}^{\infty} (n+2)^{\frac{1}{2}} - n^{\frac{1}{2}} \right)$ $\sum_{n=1}^{\infty} i^n n^{\frac{1}{2}} = \left((n+2)^{\frac{1}{2}} - n^{\frac{1}{2}} \right) + i \left(\sum_{n=1}^{\infty} (n+2)^{\frac{1}{2}} - n^{\frac{1}{2}} \right)$ $\int_{-\infty}^{\infty} \frac{1}{|x+2|^{4}-n^{4}} \int_{-\infty}^{\infty} \frac{1}{|x+2|^{4}-n^{4}$ let n=1+6 n=(1+6) ر در مع عنى وهائ وهائ ودون المراب مه سل كالمد داريم والراس.

Scanned by CamScanner



 $f_{121} = \frac{22+1}{(2-3)(2+2)} = \sum_{n=-\infty}^{\infty} a_n z^n$ النف سر تيلور بالر نعيار مغيريت كدر إن فعل نبات منارلين منه ما المر-ورفطية وبالعاقب ويود المرافقيم المرسو ويور العا مع دليره - وكريدا دب على 1 . f(=)=(=)(=)(=)+(==)+(==)(==)(==) · 20/2/2/2 = Zx + Zy + Z 2n $\forall n: \ \chi_{n} = \left(\frac{-1}{2}\right) \frac{d^{n}}{d^{2}} \left(\frac{1}{2-1}\right) \Big|_{\frac{1}{2}=0} = \frac{1}{2 \times n!} \frac{n!}{\left(\frac{2}{2}-1\right)^{n+1}} \Big|_{\frac{1}{2}=0} = \frac{1}{2}$ $\forall n: \ \gamma_n = \left(\frac{-1}{5}\right) \frac{d^n}{d^{\frac{1}{2}n}} \left(\frac{1}{2+2}\right)\Big|_{\frac{1}{2}=0} = \left(\frac{-1}{5 \times n1}\right) \frac{n! \left(-1\right)^{n+1}}{\left(\frac{2}{5}+2\right)^{n}}\Big|_{\frac{1}{2}=0} = \frac{\left(-\frac{1}{2}-n\right)}{5 \times 2} \alpha_n = \frac{1}{2} + \left(\frac{7}{30}\right)^{\left(-3\right)} + \left(\frac{2}{10}-n\right)^{n+1}$ $\forall n : \exists n = \left(\frac{7}{16}\right) \frac{d^n}{d^{\frac{n}{2}}} \left(\frac{1}{t-3}\right) = \frac{7}{10 \times n!} \cdot \frac{n!}{(\frac{2}{t-3})^m} = \frac{7}{3 \times 10}$ $f_{(\frac{1}{2})} = \frac{\infty}{2^n} \left(\frac{1}{2} + \frac{(-2)^n}{40} + \frac{7}{30} (-3)^n \right)$

ok