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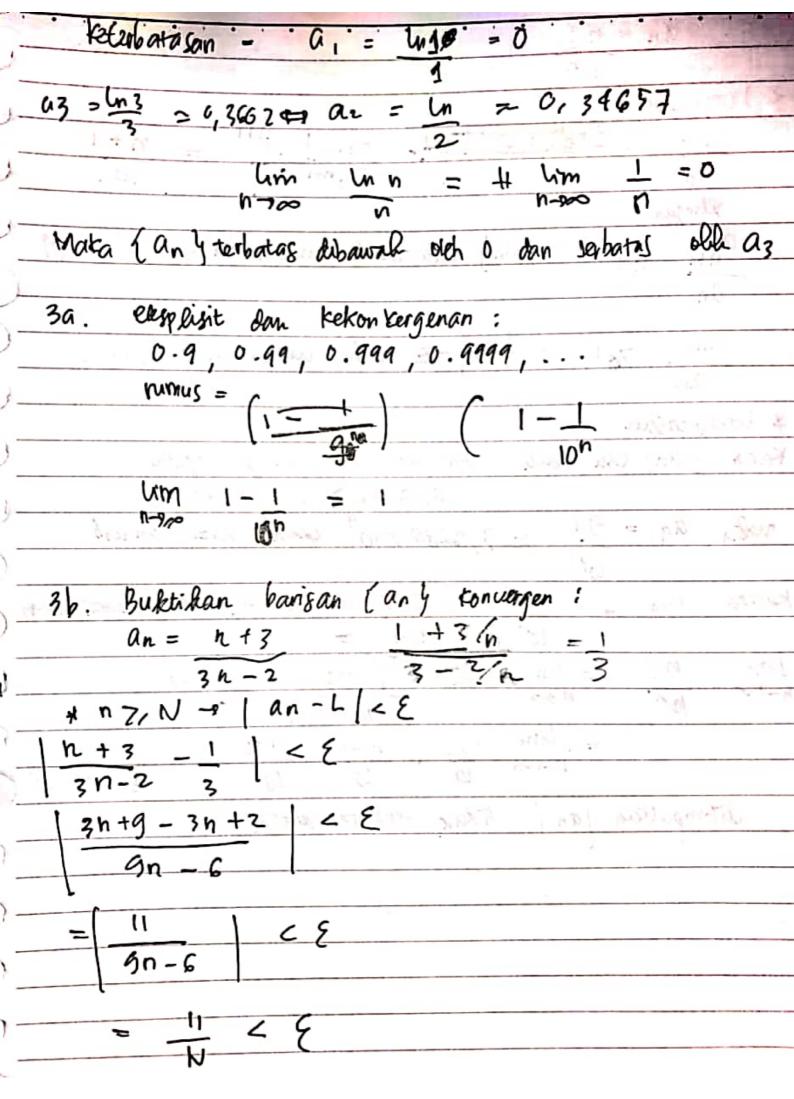
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aa. nimus exsplisit dan teronungenannya 1,-1, 1, -1, 1, -1 tumus explint = $a_n = (-1)^{n+1} = (-1)^{n-1}$ Kekonvergeran : $-1 \le (-1)^{n+1} \ge 1 \iff -1 \le (-1)^{n-1} \ge 1$ Karena Limit $\left(-\frac{1}{n}\right) = \lim_{n \to \infty} \frac{1}{n} = 0$ maka menurut teorema apit $\lim_{n\to\infty} \frac{(-1)^{n+1}}{n} = 6$ Dengan Det limit buktikan barisan (any berikut tonvergen

an = 3-8.29 $\lim_{n\to\infty} \frac{3-8\cdot 2^n}{5+4\cdot 3^n} = \frac{3/2^n-8}{5/n} = \frac{3-8}{5/n} = \frac{3-8}{5/n} = \frac{3}{5/n} = \frac{3}{5/n}$ déperaleh L = -2 E >0 déberi sembarang texap aukup Kecil $N = \ln\left(\frac{13}{e} - 5\right) - \ln 4$ atau 20 = 13/e - 5

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3c. an = n! 102 * kemonotonan $\frac{a_{n+1}}{a_n} = \frac{(n+1)!}{(n+1)!} \frac{(n+1)!}{(n+1)!} \frac{(n+1)!}{(n+1)!} = \frac{n+1}{(n+1)!}$ {any tal mail unsul n=1,2...9 --an-: { any = mail while n = 10,11 an 761 * teterbatasan [an) tak waik for n=1,2,...g yarh 0,7,027, ... 7,09 = $\frac{9!}{w^9}$ $\approx 3,6288 \times 10^9$ asalah batas bawah walka a,, 101 = 9! maka a adabh batar barra $n! = \lim_{n \to \infty} n(n-1)(n-2) \dots 3,21$ $= \frac{Um}{N-100} \frac{h}{W} \cdot \frac{n-1}{W} \cdot \frac{n-2}{W} \cdot \frac{3}{W} \cdot \frac{2}{W}$ ditimpultan and tidak terbates digital