If Sanz converges to I, then the sequence Ering cohore ren = 9,+9,+--+an also Converges to I je if lun an= l lun 91+0, + - + an 1 step to use this fermuly Wehave to Isolve Im 91+92+ -- + an Focus only on on Stopp take the sequence of + 02+03+ ... + 9n and conte an = prioke an = 9 steps.", Find the lunit -> lun an = L/say) Step3: Wrote the answer of given queston . By Carchy's front theorem on limit lun 91+02+--+an - lun an

Note cost Junit on Ast Answer Epis 9 les 9149+ 44 411 2p1 700 Example Shoes that Lm - (1+++++++ n-100 h Solutan Here use home to solve Lim 1 1 + + + + + --1+ 1/3+3+ 2 =0 n-900 Imit Cauchyls first de theorem on Im [1+++++--++] m900 200

1881gmment 14/04/2020 O.J. Shows that Lm 1 [2+3+4+ Hmt: Hake an = n+1 0,2, Shoes that 1+ 1 + 1 + 1 + 1 + 32 + 32 + Shows that 1+ \frac{1}{3} + \frac{1}{5}