014338876 Anni Vinengo TiLe III lesh Milty lection (x+ex)(y+ey) = xy + xey + exy + exey = xy + xyry + xyrx => (x5 = x5 - (x ±ex)(5±e3) = x5 - x5 = x5 x = ± (x + 5) (sun of errors)  $(x_{1}) = \frac{x}{5} - \frac{x \pm e_{x}}{5 \pm e_{y}} = \frac{x_{5} \pm x_{e_{3}} - x_{5} \pm y_{e_{x}}}{5}$ \* xey + yex = + e3 + ex = + 5 + 1x

xy + xey = y + x = + 5 + 1x

(snell e3 conpered to 3) (deference of errors) Let's consider in original since number B and it's conflerent c. What we went to prove 13 that C+1+13=0. Because C has been obtained by complementing B, it is clear + there in all positions were B his a Chis I end whe verses Therefore sun B+C conteins only ones. Becuse smither if constitue (+1+B= (B+C)+1 end therefore we are just call I to the previously obtained son B+L = 111... till 735 Setting B+4+1 = 1000...000 Die to the refuse of compters, leading I overflows and this it wont effect the results and we are left with vov. ... vao. This C+d+B = O i.e. complenenting chi sty of a number adding one and adding the original runber produces zero. I A Think about column adultion in each edura Here is excets one "1" so the result contens only ones

(2) B) Calculating value of harmonic series normally gives a value of approximately 15, 40 whereas using herronic - bunch sives following relies: velue 20 .18,6 19,3 100 20,9 500 This nakes sense because even if a single tern In is too snell congred to the already calculated part of the sun to affect the value of the float, it is very neck possible that sunning N "too snell" flocks together results in a place that is 5.3 enoys to affect the sun.



