Sum of integers converges?

=1-125=1+0+0+0+0+0+0+0+0+0+0+1...=1 =)-35=1-2+3-4+5-6+7-8+... 345= 4 +8 +12 +16+... S=1+2+3+4+5+6+7+8+... 1-2+3-4+5-6+7+... -35= 7-2+3-4+5-6+7+... -35= 1-2+3-4+5-6+... -35=

=> 1+2+3+4+... = - 1 PPB

Sum of integers converges?

=1-125 \$1+0+0+0+0+0+0+0+...=1 sunnation" for =)-35 + 1 - 2 + 3 - 4 + 5 - 6 + 7 - 8 + ... => 45 \$ 0+4+0+8+0+12+0+16+... S=1+2+3+4+5+6+7+8+... -35 \$ 0+1-2 +3-4+5-6 +7+... -35±0+7-2+3-4+5-6+7+... -35\$0+0+1 -2+3-4+5-6+...

shiffing elements up t Inserting zeros and (always) allowed in for rothing on of -> We stick to our result: S=1+2+3+... is direport!

divergent senies

But: Other methods of summation like this can be useful

-> See Ramanujan Summation

http://en.m.wikipedia.org/wiki/Ramanujan_summation

Another way of Linding the constant is as follows _41.

Let us take the series |+2+3+4+5+&c. Let Cheils con

- stant. Then c = 1+2+3+4+ &c

i.4c = 4 +8 +&c

i.3c = 1-2+3-4+&c = (1+1)=4.



-> Used in String Theory

