

The Mathematical Sets

This is something that has always interested me, and nowhere nearly enough people talk about. So lets starts with the first set:

$\mathbb{N}$ (set of all natural numbers)- as the name implies this set focuses on all natural numbers, so from 0 - ∞ (not really infinity because it's a concept but basically infinite numbers) no decimals, fractions, negatives are allowed. Just whole, easy to calculate with, numbers.

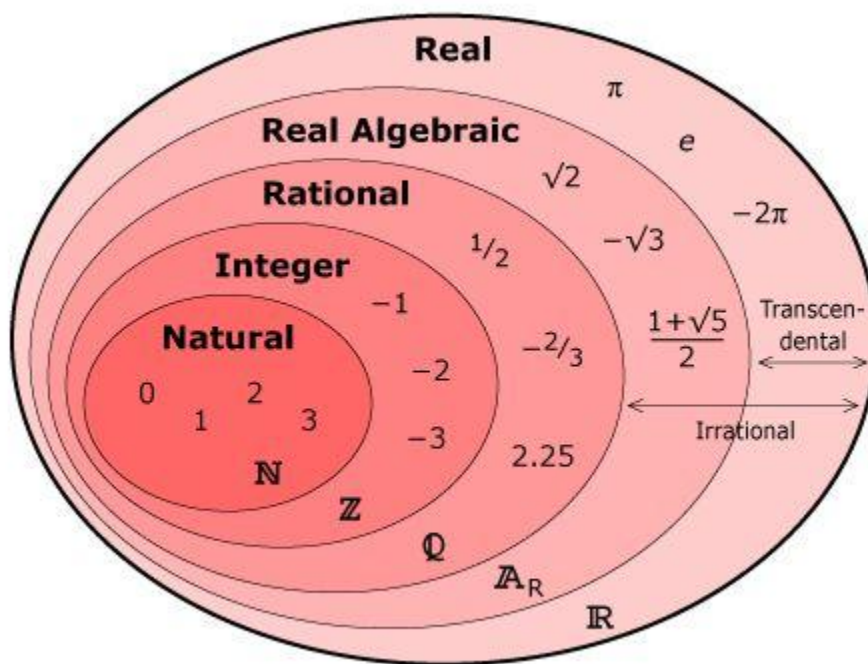
Then comes: $\mathbb{Z}$ (the set of all integers) this set is hellbent on all whole numbers, negative or positive so, from $-\infty$ to $+\infty$ (again, not really because infinity aint a number) negatives numbers are interesting because they are confined to mathematics, you cant have less than nothing in the real world, so there's no point in using them in something like physics for instance. Still, they are fun to think about.

After $\mathbb{Z}$ is $\mathbb{Q}$ (the set of rational numbers) I should have mentioned this earlier but, every set is bigger than the last(no duh) as this set includes $\mathbb{N}$ and $\mathbb{Z}$ as well as fractions. I don't know much about this one, because I am writing this all from memory. What I can say is, given that it includes fractions it also has decimals, because they directly convert (eg: $1/4=0.25$) this set is breeding ground for incredibly weird combinations of numbers. Like: $-3.14/9.8753$ or something like that. This also makes it way more difficult to work with, as fractions and decimals are tedious to calculate.

Now for the bid daddy of all them: $\mathbb{R}$ (the set of all real numbers) this includes everything, rational or irrational. Everyone is welcome here

I should probably explain what irrational numbers are. Basically they are numbers without an end, think $0.3333333333...$ This set includes

em. Everything I said about the other sets, applies to this one so there is not much more I can add, I can however show you this:



A venn diagram of (almost)everything we've discussed so far(ignore the real algebraic circle)

And that's it, very short, I know. But I never claimed to be a mathematician. I know my chances of winning are closer to 0 than 1 is to 30000000, but I want that 100£, I take any opportunity I get, no matter how small.

