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# Number Systems

$$\mathbb{N} = \{0, 1, 2, \dots\}$$

the natural numbers

$$\mathbb{Z} = \{m - n \mid m, n \in \mathbb{N}\}$$

the integers

$$\mathbb{Q} = \{m/n \mid m, n \in \mathbb{Z}, n \neq 0\}$$

the rational numbers

$$\mathbb{R}$$

the real numbers

$$\mathbb{C}$$

the complex numbers

Get yourself refreshed with the above number systems before the course! This is because most of the abstract constructions that we'll do are going to be inspired or built from these number systems. The real numbers and complex numbers in particular because they form something called fields and vector spaces are built from these.



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