$N = natural numbers = \{0, 1, 2, 3, ...\}$ $Z = integers = \{..., -2, -1, 0, 1, 2, 3, ...\}$ Q = rational numbers R = real numbers C = complex numbers

 $IR^2 = IR \times IR$ Cartesian product e.g., (3,5) $\in IR^2$ (3,5) $\in IR \times IR$

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$$\beta = f(x) = x^2$$