Numbers and Set Theory

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Youtube: StatsLabDublin

Suppose we have the sets **A** and **B** defined as follows:

$$\mathbf{A} = \{\ \sqrt{2},\ \frac{3}{2},\ 2\ \}$$

$$\mathbf{B} = \{x \in \mathbb{R} : x \notin \mathbb{Q}\}$$

1. $\mathbf{A} \cap \mathbb{Q}$
2. $\mathbf{A} \cap \mathbf{B}$
3. $\mathbf{B} \cup \mathbb{Q}$

Numbers and Set Theory

- $\mathbb{R}$ Set of all real numbers.
- $\mathbb{Q}$ Set of all integer numbers

$$\mathbf{B} = \{x \in \mathbb{R} : x \notin \mathbb{Q}\}$$

Set of all real numbers that are not integers.