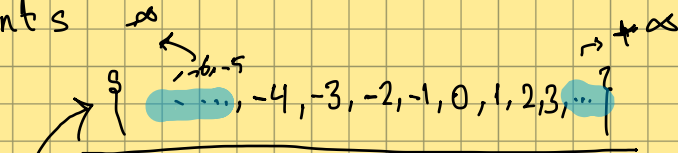


→ Set

→ elements



$$A = \{1, 2, 3\}$$

→ infinite

finite

→ equal sets

$$B = \{3, 2, 1\}$$

$$A = B$$

$$C = \{\text{red, blue, green}\}$$

$$K = \{T, F\}$$

$$\mathbb{N}_{\text{natural}} = \{1, 2, 3, \dots\}$$

$$\mathbb{Z}_{\text{integers}} = \{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$$

$$\mathbb{R}_{\text{real numbers}} = \{\dots, \underline{-1}, \underline{2}, -1, \underline{-0.9}, 0, \underline{0.2}, 2, 3, \dots\}$$

$$\begin{aligned} \rightarrow \in & A = \{1, 2, 3\} \\ & 1 \in A \\ & 5 \notin A \end{aligned}$$

$$\rightarrow P = \{\{1, 2\}, \underline{3}, \{4, 5\}\}$$

→ size, cardinality of sets

→ P has 3 elements. ←

$$\rightarrow |P| = 3$$

$$\rightarrow F = \{\}$$

\emptyset $|F| = 0$ empty set