## Cheatsheet for 001-003-sets.tex

```
\exConstants
                                    \emptyset, \; \mathbb{N}, \; \mathbb{Z}, \; \mathbb{Q}, \; \mathbb{R}, \; \mathbb{C}, \; \mathbb{B}
\exIsIn
                                    x\in\mathbb{Z},\ x\in\mathbb{Z}
\exIsNotIn
                                    x\notin\mathbb{C},\ x\notin\mathbb{C}
                                    x \subset \mathbb{C}, \ x \subset \mathbb{C}
\exSubset
\exMinus
                                    \mathbb{C}\setminus\{x\}
                                    \{1, 2, \ldots, n\} = A
\ensuremath{\texttt{exByExtA}}
                                    A = \{1, 2, \ldots, n\}
\ensuremath{\texttt{exByExtB}}
                                    B = \{ x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2 \}
\ensuremath{\texttt{exByDef}}
\ensuremath{\setminus} exRanges
                                    [x, y, z], [x, y, z[, ]x, y, z], ]x, y, z[
                                    \mathcal{P}(\mathbb{R})
\exPowerSet
                                    B^{A}
\ensuremath{\setminus} \mathtt{exFunctional}
                                    (x, y, z) \in A \times B \times \mathbb{Q}
\exCartesian
\exCardinal
                                    |\emptyset| = 0
\backslash \texttt{exIndic}
                                    \mathbb{1}_{\{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}}(y)
                                    \max_{y \in \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}} g(y^2)
\ensuremath{\mathtt{exMax}}
                                    \min_{y \in \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}} g(y^2)
\backslash \mathtt{exMin}
                                    \underset{y \in \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}}{\operatorname{argmax}} g(y^2)
\exArgmax
                                    \underset{y \in \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}}{\operatorname{argmin}} g(y^2)
\exArgmin
\exUnion
                                    x \cup y \cup z
\exInter
                                    x \cap y \cap z
                                     \bigcup x_i, \bigcup i
\exUnionIter
                                    \bigcap x_i, \bigcap i
\exInterIter
```