Cheatsheet for 001-003-sets.tex

```
\ensuremath{\setminus} exConstants
                                    \emptyset, N, Z, Q, R, C, B
\exIsIn
                                    x \in \mathbb{Z}
\exIsNotIn
                                    x\notin \mathbb{C}
\exSubset
                                    x \subset \mathbb{C}
\exMinus
                                    \mathbb{C} \setminus \{x\}
                                    \{1, \ 2, \ \dots, \ n\} = A
\exByExtA
                                    A = \{1, 2, \dots, n\}

B = \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}
\ensuremath{\texttt{exByExtB}}
\ensuremath{\texttt{exByDef}}
\ensuremath{\setminus} exRanges
                                    [x, y, z], [x, y, z[, ]x, y, z], ]x, y, z[
                                    \mathcal{P}\left(\mathbb{R}\right)
\exPowerSet
                                    B^{\hat{A}}
\ensuremath{\setminus} \mathtt{exFunctional}
\exCartesian
                                    (x, y, z) \in A \times B \times \mathbb{Q}
\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
```