Cheatsheet for 001-003-sets.tex

```
\exConstants
                                        \emptyset, N, Z, Q, R, C, 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\}
\exByExtA
                                        \{1, 2, \ldots, n\} = A
\exByExtB
                                        A = \{1, 2, \ldots, n\}
                                        B = \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}
\exByDef
                                         [x, y, z], [x, y, z[, ]x, y, z], ]x, y, z[
\exRanges
                                        \mathcal{P}(\mathbb{R})
\exPowerSet
                                        B^{A}
\ensuremath{\setminus} exFunctional
                                         (x, y, z) \in A \times B \times \mathbb{Q}
\exCartesian
\ensuremath{\setminus} 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)
\exMax
                                        \min_{y \in \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}} g(y^2)
\backslash \mathtt{exMin}
                                                     argmax
\exArgmax
                                        y \in \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}
                                                     argmin
\exArgmin
                                        \underset{y \in \{x \in \mathbb{Q} \mid f(x+3) > 38 \mid x \le 2\}}{\operatorname{argmin}}
\ensuremath{\texttt{exUnion}}
                                        x \cup y \cup z
\exInter
                                        x \cap y \cap z
                                         \bigcup x_i, \bigcup i
\exUnionIter
\exInterIter
                                            x_i, []i
                                        \operatorname{Re}(a+ib), \operatorname{Re}(a+ib)
\exComplexRe
\exComplexIm
                                        \operatorname{Im}(a+ib), \operatorname{Im}(a+ib)
\verb|\ensuremath{\backslash} exComplexModule| \\
                                        mod(a+ib), mod(a+ib)
                                        arg(a+ib), arg(a+ib)
\exComplexArgument
\exCompexConjA
                                        z^*, z^*
                                        \overline{z}, \ \overline{z}
\exCompexConjB
```