Event-B mathematical basis: predicate calculus

- A predicate is a logical expression, which can be evaluated to the constants TRUE or FALSE (of the predefined type BOOL), for example, $x \ge y$, $n \ge 0$, $x \in S$, $y \subseteq S$, or z = Exp(x, y)
- Standard logical constants and operations in Event-B (graphical notation, followed by the equivalent ascii notation):

logical conjunction
logical disjunction
logical implication
logical equivalence
logical negation
universal quantification
existential quantification