

SPEC BOOL =

{ **sort** Bool,

true, false : Bool,

\neg : Bool \rightarrow Bool, *Präfix*

$_ \vee _$, $_ \wedge _$: Bool, Bool \rightarrow Bool, *Infix*

Bool **generated_by** true, false,

not (true = false),

$\neg(\text{true}) = \text{false}$,

$\neg(\text{false}) = \text{true}$,

$\neg(\neg(x)) = x$,

$(\text{false} \vee x) = (x \vee \text{false}) = x$,

$(\text{true} \vee x) = (x \vee \text{true}) = \text{true}$,

$(\text{true} \wedge x) = (x \wedge \text{true}) = x$,

$(\text{false} \wedge x) = (x \wedge \text{false}) = \text{false}$

}