

Sentence → *AtomicSentence* | *ComplexSentence*

AtomicSentence → *Predicate* | *Predicate(Term, ...)* | *Term = Term*

ComplexSentence → (*Sentence*)

| | \neg *Sentence*

| | *Sentence* \wedge *Sentence*

| | *Sentence* \vee *Sentence*

| | *Sentence* \Rightarrow *Sentence*

| | *Sentence* \Leftrightarrow *Sentence*

| | *Quantifier Variable, ... Sentence*

Term → *Function(Term, ...)*

| | *Constant*

| | *Variable*

Quantifier → \forall | \exists

Constant → *A* | *X₁* | *John* | ...

Variable → *a* | *x* | *s* | ...

Predicate → *True* | *False* | *After* | *Loves* | *Raining* | ...

Function → *Mother* | *LeftLeg* | ...

OPERATOR PRECEDENCE : $\neg, =, \wedge, \vee, \Rightarrow, \Leftrightarrow$