

Sentence \rightarrow *AtomicSentence* | *ComplexSentence*

AtomicSentence \rightarrow *Predicate* | *Predicate*(*Term*,...) | *Term* = *Term*

ComplexSentence \rightarrow (*Sentence*)

| \neg *Sentence*

| *Sentence* \wedge *Sentence*

| *Sentence* \vee *Sentence*

| *Sentence* \Rightarrow *Sentence*

| *Sentence* \Leftrightarrow *Sentence*

| *Quantifier Variable*,... *Sentence*

Term \rightarrow *Function*(*Term*,...)

| *Constant*

| *Variable*

Quantifier \rightarrow \forall | \exists

Constant \rightarrow *A* | *X*₁ | *John* | ...

Variable \rightarrow *a* | *x* | *s* | ...

Predicate \rightarrow *True* | *False* | *After* | *Loves* | *Raining* | ...

Function \rightarrow *Mother* | *LeftLeg* | ...

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