$$
\begin{aligned}
Sentence &\rightarrow AtomicSentence \mid ComplexSentence \\
AtomicSentence &\rightarrow True \mid False \mid P \mid Q \mid R \mid \ldots \\
ComplexSentence &\rightarrow \textbf{(} \; Sentence \; \textbf{)} \mid \textbf{[} \; Sentence \; \textbf{]} \\
&\quad\mid \; \neg \; Sentence \\
&\quad\mid \; Sentence \land Sentence \\
&\quad\mid \; Sentence \lor Sentence \\
&\quad\mid \; Sentence \Rightarrow Sentence \\
&\quad\mid \; Sentence \Leftrightarrow Sentence
\end{aligned}
$$

OPERATOR PRECEDENCE : $\neg, \land, \lor, \Rightarrow, \Leftrightarrow$

Figure 7.7 A BNF (Backus–Naur Form) grammar of sentences in propositional logic, along with operator precedences, from highest to lowest.