Compiler Construction

Investigate whether the following grammar for regular expressions is SLR(1) by attempting to construct its Action and Goto matrices.

\[
S \rightarrow R \text{ eof}
\]

\[
R \rightarrow F \mid R + F
\]

\[
F \rightarrow P \mid F P
\]

\[
P \rightarrow x \mid ( R ) \mid P *
\]

Find all the conflicts, if any, in the two matrices. [20 marks]