5.8) \( D \) denote Dodgers winning
\( L \) denote Los Angeles celebrating
\( W \) denote White Sox winning
\( C \) denote Chicago celebrating

Hence the hypotheses are

\[(D \rightarrow L) \land (W \rightarrow C) \quad -- 1\]

\[(D \land W) \lor (W \land D) \quad -- 2\]

\[(D \rightarrow T) \land (W \rightarrow T) \quad -- 3\]

The conclusion is

\[C \leftrightarrow T\]

A valid argument means that

\[(\text{hypothesis } 1) \land (\text{hypothesis } 2) \land (\text{hypothesis } 3) \rightarrow \text{conclusion}\]

is a Tautology.

We can check this by showing that we cant have hypothesis 1, hypothesis 2 and hypothesis True and the conclusion false.