# Example LaTeX source for creating a truth table

For example, to draw the truth table for $p \land q$:

$$
\begin{array}{cc|c|}
p & q & p \land q \\
\hline
T & T & T \\
T & F & F \\
F & T & F \\
F & F & F \\
\end{array}
$$

the LaTeX source file (.tex file) content would be:

```
\begin{displaymath}
\begin{array}{|c c|c|}
% |c c|c| means that there are three columns in the table and
% a vertical bar '|' will be printed on the left and right borders,
% and between the second and the third columns.
% The letter 'c' means the value will be centered within the column,
% letter 'l', left-aligned, and 'r', right-aligned.
p & q & p \land q\\ % Use & to separate the columns
\hline  % Put a horizontal line between the table header and the rest.
T & T & T\\
T & F & F\\
F & T & F\\
F & F & F\\
\end{array}
\end{displaymath}
```