If and only if

Benedikt Kolb

February 23, 2015

The following statements are identical:\footnote{This one goes out to Filip Lazaric.}

1. "A implies \( B \) \( (A \implies B) \)."
2. “\( B \) is implied by \( A \) \( (B \implies A) \).”
3. “\( B \) if \( A \).”
4. “\( A \) only if \( B \).”
5. “\( B \) is necessary for \( B \).”
6. “\( A \) is sufficient for \( B \).”
7.

\begin{figure}[h]
\centering
\includegraphics[width=0.3\textwidth]{figure1}
\caption{\( A \) implies \( B \).}
\end{figure}

\footnote{Think \( A \) is “poodle” and \( B \) is “dog”.}