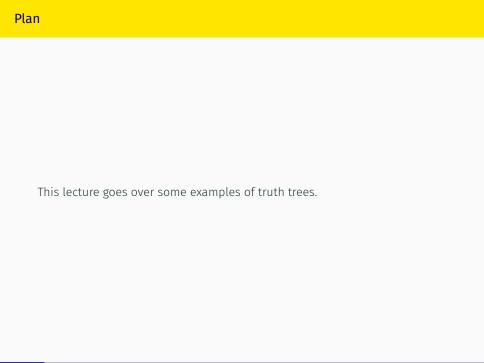
305 Lecture 24 - More Examples of Truth Trees

Brian Weatherson

July 15, 2020



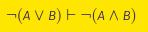


Are these arguments valid?







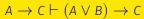


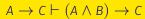




$$A \to (B \to C) \vdash (A \lor B) \to C$$

$$A \rightarrow (B \rightarrow C) \vdash (A \land B) \rightarrow C$$





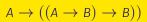
$$(A \rightarrow C) \land (B \rightarrow C) \vdash (A \land B) \rightarrow C$$

$$(A \rightarrow C) \land (B \rightarrow C) \vdash (A \lor B) \rightarrow C$$

$$(A \rightarrow C) \lor (B \rightarrow C) \vdash (A \land B) \rightarrow C$$

$$(A \rightarrow C) \lor (B \rightarrow C) \vdash (A \lor B) \rightarrow C$$

$$(A \to (B \to C)) \to (B \to (A \to C))$$



$(A \to B) \to (A \to B)$

$$(A \to (B \to C)) \to ((A \to B) \to (A \to C))$$

For Next Time

- · Do the week's assignment on trees and tables.
- · Next week we start on Odds and Ends