

# Logic 100 User Guide

Hatzic Intellectual Software

- Some textbooks use the words *sentence*, *statement*, or *proposition* instead of *formula*.

## **Formula List.**

- Press the Add button to add a line to the list.
- Touch a line to edit the formula on that line.
- Press the Edit button to delete a line, or to re-order the lines.
- The Add button does not function when the Edit button is active.

## **Formula Editor.**

- Touching a line or pressing the Add button in the Formula List opens the Formula Editor.
- If the formula entered in the editor field contains a syntax error, a warning is displayed.
- Press the Symbols tab to display a Keyboard Map, which shows how to type formulas in the Formula Editor.

## **Truth Tables.**

- Press the Tables tab to open the truth table utility.
- Touch a line to display the truth table for the formula on that line.

## **Consistency Test.**

- Press the Consistency tab to open the consistency test utility.
- Touch the lines to select the formulas to test.
- Selected formulas are indicated by a check-mark.
- Press the Test button.
- If the selected formulas are consistent, a truth value assignment is displayed.

## **Validity Test.**

- Press the Validity tab to open the validity test utility.
- Touch the lines to select the premises of the inference to be tested.
- Selected premises are indicated by a check-mark.
- When the premises have been selected, press the Test button.
- Then touch a line to select the conclusion of the inference to be tested.
- The result is displayed, along with the selected premises and the conclusion.

## **Choose Notation.**

- Press the Symbols tab to choose the logical symbols the app will display.
- Touch the name of the symbol you wish to define, then select your choice from the list displayed.
- The Truth Values selection also allows the order of truth table rows to be chosen.