Homework from Fuzzy Logic. Choose the basic or advanced level.
Exercise from distributivity.

**Exercise 4.1 Basic level**
Decide whether the following distributivity laws are always valid:

\[
\alpha \land L (\beta \lor \gamma) = (\alpha \land L \beta) \lor L (\alpha \land L \gamma),
\]

\[
\alpha \lor L (\beta \land \gamma) = (\alpha \lor L \beta) \land L (\alpha \lor L \gamma).
\]

**Advanced level**
Try the same with \(\land L\) replaced by a general fuzzy conjunction.