

# Issues In The Meaning And Definition of Logic

Post by "Martin" of August 26, 2021 at 4:35 AM

Quote

"if the premises are false, the conclusion is going to be false."

No.

If the premises are false, the conclusion is not necessarily false.

Otherwise, you could "refute" a true statement by presenting it as the conclusion of false premises.

The truth table of a syllogism looks like this (you can verify by thinking it through line by line):

A	*	B	->	C
T	T	T	T	T
T	T	T	F	F
T	F	F	T	T
T	F	F	T	F
F	F	T	T	T
F	F	T	T	F
F	F	F	T	T
F	F	F	T	F

You can see from this table that the conclusion may be true if any or both of the premises are false.