

F	T	F	F	F	F	T
T	T	F	F	F	F	T
F	F	T	F	F	F	T
T	F	T	F	F	F	T
F	T	T	T	F	F	T
T	T	T	T	T	T	T

NIL

> (truth-table "P | (Q | R) <=> (P | Q) | R")

P Q R Q | R P | (Q | R) P | Q | R (P | (Q | R)) <=>



F	F	F	F	F	F	T
T	F	F	F	T	T	T
F	T	F	T	T	T	T
T	T	F	T	T	T	T
F	F	T	T	T	T	T
T	F	T	T	T	T	T
F	T	T	T	T	T	T
T	T	T	T	T	T	T

NIL

For the remaining sentences, we just show that they are valid according to the validity function:

> (validity "~~P <=> P")