

QUIZ 2

Answer the following true or false. If false, explain why.

- (1) This is a valid natural deduction proof of $B \vdash A \rightarrow B$

$$\frac{B}{A \rightarrow B}$$

- (2) This is a valid natural deduction proof of $\neg(A \vee B) \vdash \neg A$

$$\frac{\neg(A \vee B)}{\neg A} \quad \frac{}{A} 0$$

$$\frac{\perp}{\neg A} 0$$

- (3) This is a correct truth table for $A \rightarrow (B \vee C)$

A	B	C	$A \rightarrow (B \vee C)$
T	T	T	T
F	T	T	F
T	F	T	T
T	T	F	T
F	F	T	T
F	T	F	T
T	F	F	F
F	F	F	T