

Math 2283 - Introduction to Logic

Quiz #2 - 2006.08.28

Solutions

Negate the following statements.

1. Every cat has a tail.

There is a cat which has no tail.

2. Some cats have tails.

All cats do not have tails.

3. Every cat has a tail and likes to meow.

There exists a cat such that the cat does not have a tail or does not like to meow.

Calculate the truth table for the expression $(A \wedge \neg B) \Rightarrow (B \vee A)$.

The column in bold is the final answer.

A	B	$(A \wedge \neg B)$	\Rightarrow	$(B \vee A)$
T	T	F	T	T
T	F	T	T	T
F	T	F	T	F
F	F	F	T	F