

Math 308, Bridge to Advanced Math, Prof. Santoro

Quiz 2, September 17, 2015

NAME: Solutions

Write clear proofs with complete sentences for the following questions:

1. State the negation of each of the following statements.

(a) At least two of my library books are overdue.

At most most one of my library books is overdue

(b) bf Exactly one of my two friends misplaced his homework assignment.

Either two or none of my two friends misplaced their homework assignment.

(c) No one expected that to happen.

Someone expected that to happen

2. For statements P , Q and R , show that $(P \vee Q) \Rightarrow R$ and $(P \Rightarrow R) \wedge (Q \Rightarrow R)$ are logically equivalent.

Just write down the truth table.