
For each of the following problems, assume that p is a false statement and q is a true statement. Circle T if the given statement is true and F if the statement is false. There is no partial credit on this part of the quiz.

1. T F $q \rightarrow p$
2. T F $(p \vee q) \rightarrow \sim q$
3. T F $(p \wedge q) \rightarrow (p \vee q)$
4. T F $\sim q \rightarrow (p \wedge q)$

Complete the following problems. Use the original conditional statement “If you lead, I will follow” for each of the following.

5. Write the inverse of the statement.

6. Write the contrapositive of the statement.

7. Which of the above statements is equivalent to the original?