

Chapter 2 Quiz Prep

1. MULTIPLE CHOICE (10 points)
 - a. Write the following statements from a given conditional statement
 - i. Converse
 - ii. Inverse
 - iii. Contrapositive
 - b. Provide counterexamples to prove statements false
 - c. Given a conditional statement, identify the hypothesis and conclusion
 - d. Write a definition as a biconditional statement
 - e. Know which statements are logically equivalent
 - i. Converse and Inverse
 - ii. Contrapositive and Conditional
 - f. Laws of Logic
 - i. Given a statement and a conjecture, determine whether the conjecture is valid by either the Law of Detachment or the Law of Syllogism.
 - g. Know the definitions/difference between inductive and deductive reasoning
2. FREE RESPONSE (10 points)
 - a. Given a sequence of numbers, identify the pattern and write the next few terms in the sequence.
 - b. Given a diagram, determine if the statement can or cannot be assumed (i.e. “line n and line m are perpendicular...yes or no?”)
 - c. Given a biconditional statement, determine if it is true or false. If it is false, provide a counterexample.