

Chapter 2 Quiz Prep

Covers Sections 2.1 – 2.3

1. Use inductive reasoning to write a conjecture, and list next two items (*4 points*)
2. Write the following “if-then” statements from a given statement, and determine whether each is true or false. (*8 points*)
 - a. Conditional
 - b. Converse
 - c. Inverse
 - d. Contrapositive
3. Write biconditional statements. Also know the conditions necessary to be able to write biconditional statements. (*3 points*)
4. Provide counterexamples to prove statements false (*1 point*)
5. Deductive reasoning
 - a. Determine whether Law of Detachment can be used from the given information, and if so, determine what you can conclude using the Law of Detachment. (*2 points*)
 - b. Determine whether Law of Syllogism can be used from the given information, and if so, determine what you can conclude using the Law of Syllogism. (*2 points*)
6. Given a diagram, determine whether you can assume a statement about the diagram. (*5 points*)
 - a. For example: “Given the diagram, can you assume that M is the midpoint of \overline{XY} ? Yes or no?”
7. EXTRA CREDIT PROBLEM! (*1 point*) fill out truth tables!

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