

Chapter 2 Test Prep (no proofs)

1. True/False
 - a. Refer to warm-up questions ☺
2. Multiple Choice
 - a. Given a conditional statement, find a counterexample.
 - b. Represent conditional/converse/inverse/contrapositive and Laws of Logic in terms of p, q, and r.
 - c. Given a conditional statement, identify hypothesis and conclusion.
 - d. Given a conditional statement, write the converse, inverse, and contrapositive.
 - i. Also determine if the new statement is true or false.
 - ii. Also know which statements are logically equivalent.
 - e. Determine if a conjecture is valid by Laws of Logic
 - i. Law of Detachment
 - ii. Law of Syllogism
 - f. Inductive reasoning: identify a pattern and select the next term
 - g. Given a diagram, determine what you can or cannot conclude.
3. Free Response
 - a. Algebraic proofs
 - i. Solve an algebraic equation and justify each step
 - b. Inductive reasoning: identify and describe a pattern and write next few terms
 - c. Use Laws of Detachment and/or Syllogism to write a conjecture.
 - d. Apply the Linear Pair Postulate
 - i. Linear pairs are supplementary!
 - e. Apply the Vertical Angles Congruence Theorem
 - i. Vertical angles are congruent!
 - f. Write definitions as biconditional statements
 - i. Refer to warm-ups ☺
 - g. Write theorems as conditional statements
 - i. Know the following:
 1. Right Angles Congruence Theorem
 2. Vertical Angles Congruence Theorem
 - h. Find lengths of segments using Segment Addition Postulate