

**Due: 5/31/17 at 4:00PM**

**Instructions:** Your answers to the following questions do not need to be lengthy or written in complete sentences, but should reflect preparation for our discussion about Chapter 2 at the beginning of class.

**Questions:**

1. Does inductive reasoning guarantee that a conjecture is true?
2. How many counterexamples are needed to prove that a conjecture is false?
3. How do you form the contrapositive of a conditional statement?
4. Which pairs of a group of four related conditional statements are logically equivalent?
5. What is the key phrase for a biconditional statement?
6. What must be true for a biconditional statement to be true?
7. Why can't a proof be based on inductive reasoning?
8. Which law of deductive reasoning is similar to the transitive property of equality?
9. How can you translate a conditional statement into the "Given" and "Prove" for a proof?

**Muddiest Point:**

What questions do you have about the notes you took in Chapter 2, or anything from this week?



**MML Homework Questions:**

Are there any MML homework problems from Chapter 2 that you would like to discuss?