**Section 1.3 and 1.4**

**Part One - Identify the hypothesis/antecedent in each of the following implication statements.**

1. If you study in this course you will get an A.
2. Tomorrow is Friday if today is Thanksgiving.
3. n is prime implies n is odd or n is 2.
4. Tim is Ann’s father is sufficient for Jim being her uncle and Sue being her aunt.
5. n is divisible by 6 only if n is divisible by 2 and n is divisible by 3.
6. P being a rectangle is necessary for P being a square.

**Part Two -** Complete the following truth table.



**Part Three – “If my client is guilty, then the knife was in the drawer.”**

Write the following “variations” for the implication written above

* Converse
* Contrapositive
* Inverse
* Negation

**Part Four**

Define these three terms

* Tautology
* Contradiction
* Logically Equivalent