**Section 1.3**

**Part One**

**For each of the following sentences identify which part is p and which part is q such that they are in the implication form p → q.**

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**

For the following statement:

* If my client is guilty, then the knife was in the drawer

Write the following

1. Converse
2. Contrapositive
3. Inverse
4. Negation