CSCI 281, Assignment 07 – Sets and Logic(15 points)

- 1. (5 points) Use truth tables to show $\neg(P \implies Q) \equiv P \land \neg Q$
- 2. (5 points) Express $P \implies Q$ using \neg and \lor but not \implies Hint: Use the result from Question 1.
- 3. (5 points) Write the contrapositive of the following statement: "If I study hard then I'll pass the test". Your answer should be an English sentence.