

Questions

Complete the following truth table. To complete the truth table, apply the following truth-conditions for conjunctions & disjunctions.

Conjunction: If *one* conjunct is *false* then the conjunction is *false*, and if *both* conjuncts are *true* then the conjunction is *true*.

Disjunction: If *one* disjunct is *true* then the disjunction is *true*, and if both disjuncts are *false* then the disjunction is *false*.

Accordingly, complete the following truth table

| P | Q | $P \wedge Q$ | $P \vee Q$ | $\sim P$ | $\sim Q$ | $\sim P \wedge \sim Q$ | $\sim P \vee \sim Q$ |
|-------|-------|--------------|------------|----------|----------|------------------------|----------------------|
| TRUE | TRUE | | | | | | |
| TRUE | FALSE | | | | | | |
| FALSE | TRUE | | | | | | |
| FALSE | FALSE | | | | | | |