The basic logical operations are: \land (and); \lor (or); \neg (negation); \Longrightarrow (implies); and \iff (equivalent). To define them please fill in the truth table below

Р	Q	$P \wedge Q$	$P \vee Q$	$P \Longrightarrow Q$	$P \Longleftrightarrow Q$
Т	Т				
Т	F				
F	Т				
F	F				

It is important to understand the logical implication of $(P \Longrightarrow Q \text{ along with the operations of the Converse}$ $(Q \Longrightarrow P)$, the Contrapositive $(\neg Q \Longrightarrow \neg P)$ and the negated implication $\neg P(\Longrightarrow Q)$. Please fill in the truth table below to illustrate the differences between these operations:

Р	Q	$P \Longrightarrow Q$	$Q \Longrightarrow P$	$\neg Q \Longrightarrow \neg P$	$\neg(P \Longleftrightarrow Q)$
Т	Т				
Т	F				
F	Т				
F	F				