- 1) With truth tables check if $\neg (PV(\neg PAQ)) \equiv \neg (PVQ)$ is true or false.
- 2) Simplify the expression -(PAQ) V(PAQ)
- 3) Simplify the expression (-p 1 (PVq))
- 4) Without a truth table prove $\neg (P \rightarrow q) = P \land \neg q$
- 5) Without truth table prove (PN(-PAQ)) = (PV)