Tutorial 1

Q1) Prove the following using Truth Tables.

1. (A.B)’ = A’ + B’
2. A.(B+C) = A.B + A.C
3. (A.B).C = A.(B.C)
4. (A+B)’ = A’ . B’
5. A+(B.C) = (A+B) . (A+C)
6. (A+B)+C = A+(B+C)

Q2) Apply DeMorgan's theorem to the expression.



Q3) Derive the Boolean expression for the logic circuits shown below:



