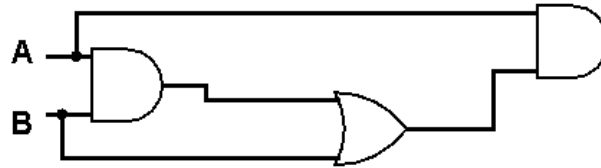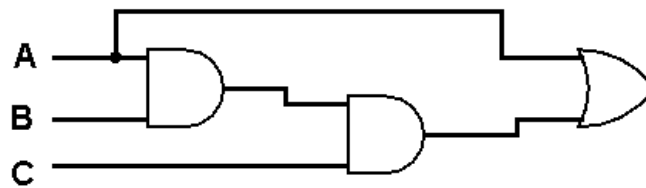# Review Questions 9

For the following logic diagrams, determine the final output, then reduce the output expression using the reference table and draw its equivalant, verify using the truth table
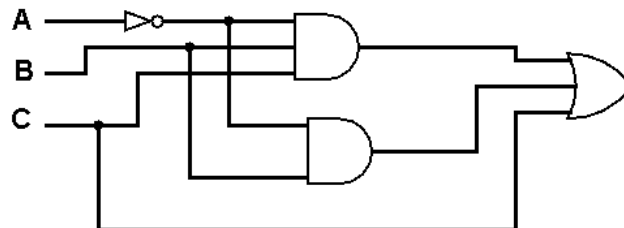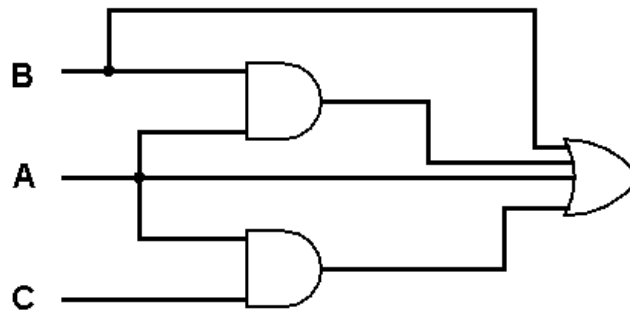
1.

2.

3.

4.

1. $A(AB+B)$ reduces to AB

2. $ABC+A$ reduces to A

3. $\overline{A}BC+\overline{A}B+C$ reduces to $\overline{A}B+C$

4. $AB+AC+B+A$ reduces to $A+B$