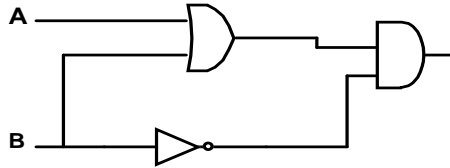


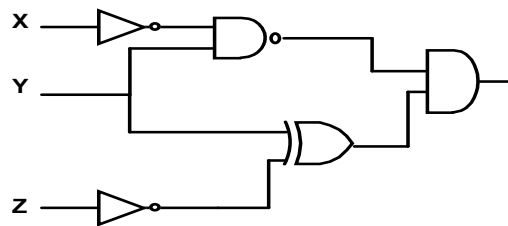
1. Digital Electronics

Find all ordered pairs (A,B) that make the following circuit TRUE.



2. Digital Electronics

Translate the circuit to a Boolean expression and simplify.



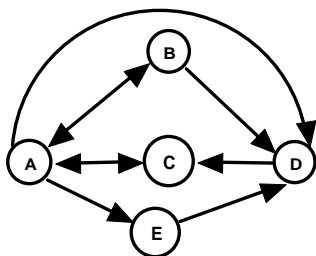
3. Boolean Algebra

Simplify so that only AND and NOT symbols are used

$$\overline{A} (\overline{B} + \overline{C}) + \overline{B} (\overline{A} + \overline{C}) + \overline{C} (\overline{A} + \overline{B})$$

4. Graph Theory

Which of the following are simple paths in the following diagram?



- A) ECAD
- B) BCABD
- C) EDCAB
- D) CADCB
- E) None of the above

5. Graph Theory

Write the adjacency matrix for the following graph.

