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
   \[ A \overline{(B + C)} + B \overline{(A + C)} + C \overline{(A + B)} \]

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.