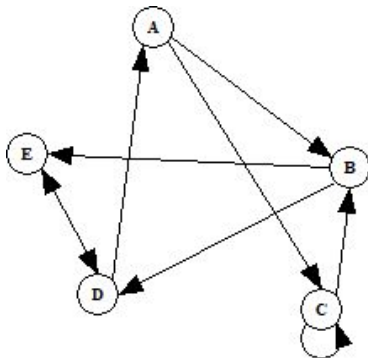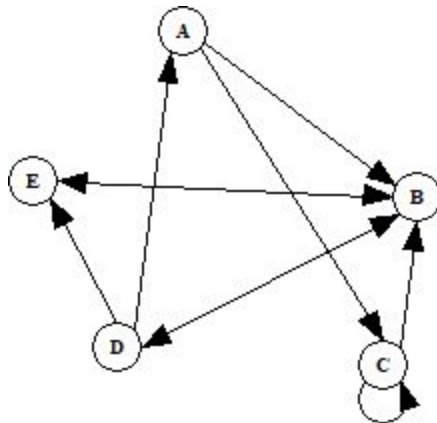|	
1. Graph Theory How many paths of length 3 from Vertex C in the following directed graph? 	1.
2. Graph Theory How many cycles are there from Vertex B in the following directed graph? 	2.

3. Digital Electronics   3.

Simply the Boolean expression represented by the
following digital circuit:
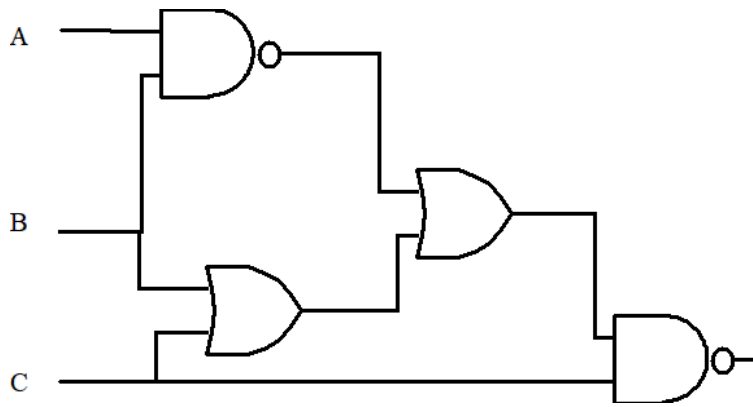
4. Digital Electronics   4.

How many ordered quadruples make the following digital
circuit FALSE?
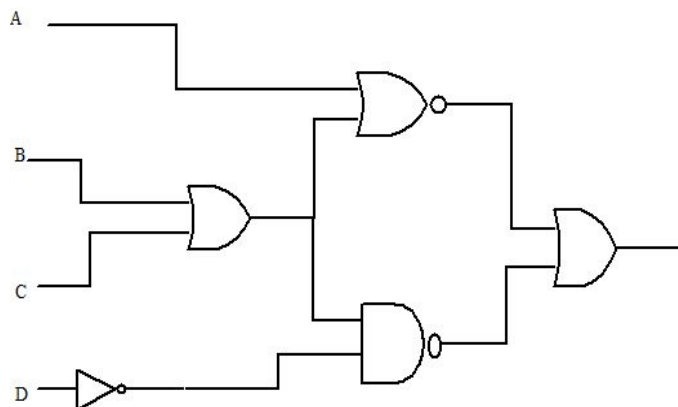
5. Assembly Language

What would be output when this program is executed?

```
      X    DC    1
      Z    DC    0
TOP   LOAD      X
      MULT      X
      ADD       Z
      STORE     Z
      SUB       = 500
      BL        P
      LOAD      X
      PRINT     X
      END
  P   LOAD      X
      ADD       = 1
      STORE     X
      BU        TOP
```

5.