

1. For this Logic statement

$$X = 1 \text{ if } ((A \text{ is } 1 \text{ AND } B \text{ is } 1) \text{ OR } (B \text{ is } 1 \text{ AND } C \text{ is NOT } 1))$$

(a) Draw the logic circuit.



[4]

(b) Complete the truth table for the given logic statement.

A	B	C	Working space	X
0	0	0		
0	0	1		
0	1	0		
0	1	1		
1	0	0		
1	0	1		
1	1	0		
1	1	1		

[4]

2. Write a logic statement that corresponds with the following logic circuit

