5.7

$$F = \overline{\overline{A\bar{B}} \cdot B} \cdot \overline{AB}$$

$$F = A\bar{B}B + \bar{A}B$$

$$F = \bar{A}BB + AB$$

$$F = B(\bar{A} + \bar{B}) + AB$$

$$F = B\bar{A} + B\bar{B} + AB$$

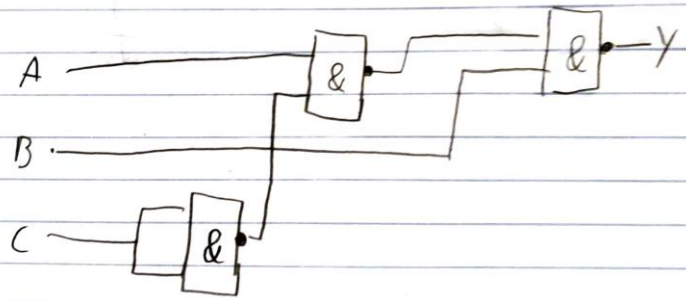
$$F = B\bar{A} + AB$$

$$F = B(\bar{A} + A)$$

$$F = B$$

5.8

B)



5.8

A	B	C	F
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	1
1	1	1	0

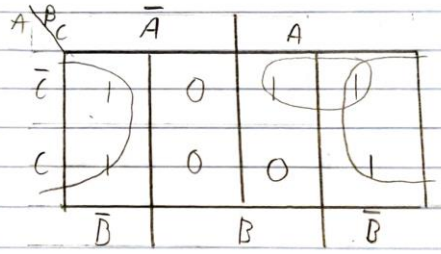
$Y = \overline{\bar{A}B + \bar{C} + \bar{B}C}$ A

$Y = \overline{\bar{A}B \cdot \bar{C} + \bar{B}C}$ B

$Y = \bar{\bar{A}} + \bar{B} \cdot \bar{C} + \bar{B}C$ C

$Y = A + \bar{B} \cdot \bar{B} + \bar{C}$

$Y = A\bar{B} + A\bar{C} + \bar{B} + \bar{B}\bar{C}$



$Y = \bar{B} + A\bar{C}$