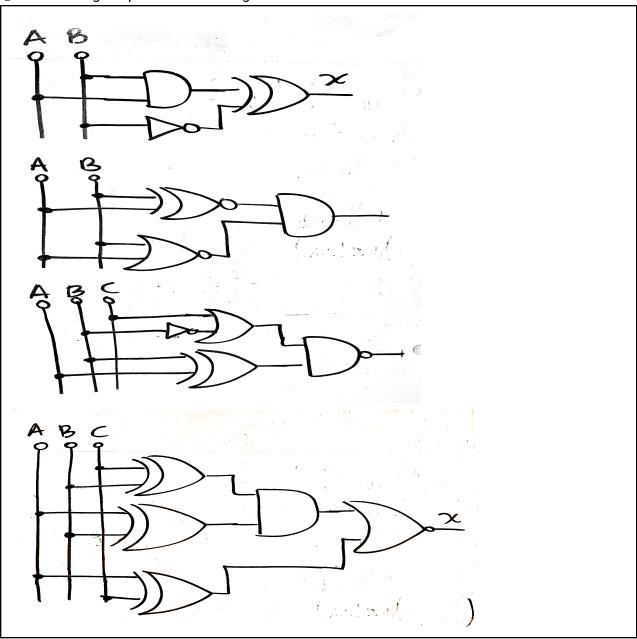
① Write the logic equation for the diagrams below:



- 2 Draw the diagram for the logic equations below:
 - 1. Out1 = A + C + BD + (**not**B **not**D)
 - 2. Out2 = notB + (notC notD) + CD
 - 3. Out3 = B + notC + D
 - 4. Out4 = (notB notD) + (C notD) + (BCnotD) + (notB C) + A

③ Simplify the K-map Tables below and write the logical equations:

ab/ c	00	01	11	10
0		1		
1		1	1	

Table 2

ab/ c	00	01	11	10
0		1		1
1		1	1	1

Table 3

ab/ c	00	01	11	10
0	1			1
1	1			1

Table 4

ab/ c	00	01	11	10
0	1	1	1	1
1			1	

Table 1

ab/ cd	00	01	11	10
00	1			1
01				
11				
10	1			1

- 4 The apartment below needs a notification system that sends an SMS to the owner when:
 - a. Any of the two windows is open when the main door is locked,
 - b. The baranda's door is open when the main door is locked,
 - c. The TV screen is ON when the washing machine and the dish washing machine are ON.

Add 2 more rules and find the equation for the notification system.

