Reverse Engineering Example
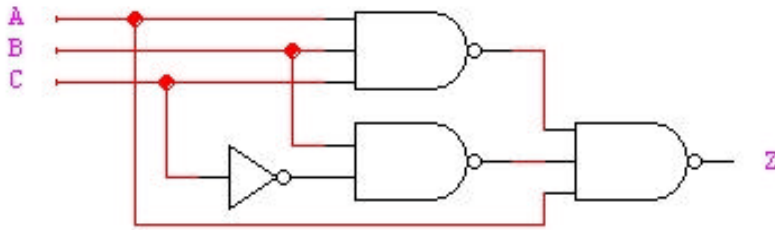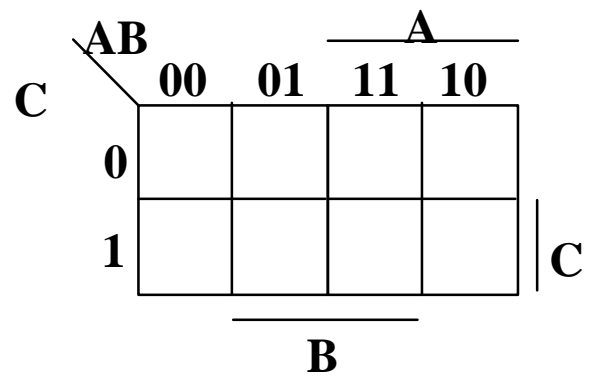
Write down the Boolean expression for the following circuit:

F(A,B,C) =

Simplify the function using Boolean algebra:

Write the truth table, canonical SOP form, and minimize again using the K-map.

Draw the re-implementation of the better design.

Minimize the following 5-input function using the K-maps below

$$f(A, B, C, D, E) = \sum m(0,1,4,8,9,10,12,17,18,22,24,25)$$

A=1

	$\overline{B}$ 00	01	11	10
00				
01				
11				
10				

E (left side), C (right side), D (bottom)

A=0

	$\overline{B}$ 00	01	11	10
00				
01				
11				
10				

E (left side), C (right side), D (bottom)