

3.)

A	B	C	D	Y
0	0	0	0	1
0	0	0	1	1
0	0	1	0	0
0	0	1	1	0
0	1	0	0	1
0	1	0	1	1
0	1	1	0	0
0	1	1	1	0
1	0	0	0	1
1	0	0	1	1
1	0	1	0	0
1	0	1	1	0
1	1	0	0	1
1	1	0	1	1
1	1	1	0	0
1	1	1	1	0

incorrectly formed map equation:

$$Y = B\bar{C} + \bar{B}\bar{C} = Y = (B + \bar{B})\bar{C}$$

$$Y = (1)\bar{C}$$

↳ ... which can be reduced to

$$\underline{Y = \bar{C}}$$

Correct map

AB \ CD	00	01	11	10
00	1	1	0	0
01	1	1	0	0
11	1	1	0	0
10	1	1	0	0

$$Y = \bar{C}$$